

Biology

1100+ MCQs

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1. Tibia is a bone found in the _____?
 - A. Skull
 - B. Arm
 - C. Leg
 - D. Face
2. Which is the largest gland in the human body?
 - A. Thyroid
 - B. Liver
 - C. Pancreas
 - D. None of these
3. Water has maximum density at _____?
 - A. 0°C
 - B. 4°C
 - C. 4°K
 - D. 4.8°C
4. The scientific study of livings is called?
 - A. Anatomy
 - B. Biology

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B.

C. Geology

D. Zoology

5. The word "BIOLOGY" has been derived from_____ word?

A. Latin

B. English

C. Greek

D. French

6. According to modern system of taxonomy, living organisms have been classified into?

A. Three Kingdoms

B. Five Kingdoms

C. Two Kingdoms

D. Six Kingdoms

7. Kingdom Protocista includes_____?

A. Fungi

B. Prokaryotes

E. protists

D. Plantae

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8. Kingdom Fungi includes_____?

A. A cellular, eukaryotic organisms

B. Non-chlorophylls, multicellular eukaryotic organisms

C. Non-chlorophylls, multicellular, saprophytic organisms

D. Chlorophyllous, multicellular, eukaryotic Organisms

9. Earthworm is included in_____?

A. Kingdom Plantae

B. Kingdom Protista

C. Kingdom Monera

D. Kingdom Animalia

10. The Study of organisms inhabiting the sea and Ocean and the physical and chemical characteristics of their environment is:

A. Social Biology

B. Marine Biology

C. Environmental Biology

D. Fresh Water Biology

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11. The branch of Biology which deals with the use of data and techniques of engineering & technology concerning living organisms is:

- A. Human Biology
- B. Environmental Biology
- C. Genetics
- D. Bio-technology**

12. The branch in which organism's life cycle, mode of transmission and interaction with their hosts are studied is:

- A. Anatomy
- B. Physiology
- C. Parasitology**
- D. Social Biology

13. The molecules of living matter that provide building blocks are mostly based on:

- A. Carbon**
- B. Nitrogen

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C. Hydrogen

D. Ammonia

14. Human blood is an example of_____?

A. Organelle

B. Tissues

C. Organic compound

D. Inorganic compounds

15. With different chemical arrangements and formation Of complex molecules, the life emerges on the level of the ?

A. **Cells**

B. Tissues

C. Organs

D. Organ System

16. Organelles are_____?

A. Unicellular structures

B. Multi-cellular structures

C. Sub-cellular structures

D. Non-cellular structures

17. Functional unit of DNA Is_____?

A. Nucleus

B. Genes

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C. Chromosomes

D. Nucleolus

18. Various tissue types combine to make up_____?

A. Cells

B. Organs

C. Organ System

D. Organelles

19. Two or more populations of different species living and interacting in the same area form

A. Biosphere

B. Community

C. Population System

D. Ecosystem

E. Species

20. A group of similar cells that perform a specific function is:

A. Organ

B. Tissues

C. Organelle

D. Organ System

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- 21.** Which of the following is an example of "molecule"?
- A. Chloroplast
 - B. A Nerve Cell
 - C. DNA**
 - D. Hydrogen
- 22.** A group of very similar inter breeding organisms constitutes?
- A. Biosphere
 - B. Ecosystem
 - C. Population
 - D. Species**
- 23.** Members of one species inhabiting the same are form_____?
- A. Species
 - B. Community
 - C. Ecosystem
 - D. Population**
- 24.** On the basis of collected facts and figures, a scientist formulates a factitive statement called:

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A. Observation

B. Research work

C. Hypothesis

D. Inductive Reasoning

25. Robert Hooke discovered_____?

A. Nucleus

B. Mitochondria

C. Cell

D. DNA

26. Steps Involved in scientific method are ?

A. Hypothesis → Accumulated data → observation & experimentation → conclusion

B. New data → Conclusion → Accumulated data → Observation & experimentation

C. Accumulated data – New data – Observation & experimentation – Hypothesis → Conclusion

D. Accumulated data → Hypothesis → Observation & experimentation → New data → Conclusion

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- 27.** Malaria is associated with_____?
- A. Culex Mosquito
 - B. Culiesta Mosquito
 - C. Anopheles Mosquito**
 - D. Culex & Anopheles Mosquito
- 28.** Biologist 'Grass' discovered the life cycle of plasmodium in_____?
- A. 1896
 - B. 1897
 - C. 1898**
 - D. 1899
- 29.** The first antibiotic to be discovered was_____?
- A. Penicillin**
 - B. Cephalosporin
 - C. Amino glycosides
 - D. Erythromycin
- 30.** Immunization by vaccination was first introduced by?
- A. Fleming in 1945
 - B. Florey & Chain in 1975

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C. Flore & Chain in 1795

D. Edward Jenner in 1795

- 31.** The Science of growing terrestrial plants in an aerated solution is_____?
- A. Hydrodynamics
 - B. Hydroponics
 - C. Hydrotonics
 - D. None of them
- 32.** An educated guess is called:
- A. Accumulated Data
 - B. Observation
 - C. Hypothesis
 - D. Conclusion
- 33.** Dolly, the sheep was a highly successful clone from a somatic cell, reported back in_____?
- A. 1993
 - B. 1994
 - C. 1995
 - D. 1996
- 34.** Crop rotation helps in_____?

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- A. Growth of pathogens
- B. Soil Infertility
- C. Slowing of crops growth
- D. Eradication of disease

35. People living in high altitudes (like mountains) usually have a _____?

- A. smaller number of Red Blood Cells
- B. larger number of Red Blood Cells
- C. smaller number of White Blood Cells
- D. larger number of White Blood Cells

36. Which character differentiates living things from non-living organisms?

- A. They live in the same ecosystem.
- B. They are highly organized and complex made of one or more cells and contain genetic material
- C. They are acted upon by the same environment
- D. Both a and b

37. Which Vitamin is needed for the formation of a light-sensitive pigment in the retina.

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A. Vitamin A

B. Vitamin C

C. Vitamin D

D. B complex

38. The average internal temperature of human body is _____?

A. 35 oC

B. 36 oC

C. 37 oC

D. 38 oC

39. The study of fossils is called?

A. Environmental Biology

B. Historical biology

C. Palaeontology

D. Social biology

40. About _____ of the body weight of a mammal is water ?

A. 60%

B. 65%

C. 70%

D. 75%

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- 41.** The experiments on DNA molecules in chromosomes for knowing the basis of inherited diseases are conducted by ?
- A. Molecular biologists
 - B. Microbiologists
 - C. Freshwater biologists
 - D. Social biologist
- 42.** On wound _____ fight foreign particles, like bacteria?
- A. White Blood cells
 - B. Red Blood Cells
 - C. Platelets
 - D. Plasma
- 43.** Sythetic insulin from pork was formed by which technique?
- A. Biotechnology
 - B. Social biological techniques
 - C. Parasitology
 - D. Both a and c
- 44.** Blood is carried towards the heart by _____?

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- A. Arteries
- B. Capillaries

C. Veins

D. none of these

45. The branch of biology which deals with the study of social behavior and communal life of human beings living in any environment is called ?

A. Environmental biology

B. Social biology

C. Human biology

D. Both b and c

46. _____ is essential for the formation of hemoglobin.

A. Calcium

B. Iron

C. Water

D. Carbohydrates

47. Out of 92 naturally occurring chemical elements how many are considered as bio-elements?

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A. 6

B. 16

C. 26

D. 15

48. _____ are needed as a source of energy for the vital activities of the body?

A. Calcium

B. Iron

C. Water

D. Carbohydrates

49. Oxygen accounts for ____ % of totals human body mass?

A. 65%

B. 18%

C. 10%

D. 3%

50. The atoms of different elements combine with each other through ionic or covalent bonding to produce compounds this stable form is called:

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- A. An organ
- B. A molecule
- C. Tissue
- D. Both a and c

51. Which one of them is a micro-molecule?

- A. Polysaccharide
- B. Protein
- C. Hemoglobin

D. ATP

52. A structure formed by groups of similar cells organized into loose sheets or bundles performing similar functions is called as:

- A. An organ
- B. An organism

C. A Tissue

D. A Cell

53. Haemodialysis means cleaning of _____?

A. Urine

B. Blood

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C. Glomerular filtrate

D. Coelomic fluid

54. In animals coordination is achieved by means of?

A. Nervous system

B. Endocrine system

C. Respiratory system

D. Both A and B

55. Production of sweat and sebum is related with ?

A. **Skin**

B. Liver

C. Lungs

D. GIT

56. Group of living organisms of the same species living in the same place at the same time is called ?

A. Community

B. Population

C. Ecosystem

D. Biome

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- 57.** The evaporative cooling in the respiratory tract of dogs is called?
- A. Vasodilation
 - B. Vasoconstriction
 - C. Panting
 - D. All of these
- 58.** Different species of plants and animals living in the same habitat is called?
- A. Population
 - B. Community
 - C. Biome
 - D. Habitat
- 59.** Which of the following pathogen type cause disease that can be treated with antibiotics ?
- A. bacteria
 - B. fungi
 - C. virus
 - D. none of these
- 60.** A large regional community primarily determined by climate is called ?

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A. Population

B. Community

C. Biome

D. Habitat

61. Most cell membranes are composed principally of ?

A. DNA and protein

B. Protein and Lipids

C. Protein and Chitin

D. Protein and RNA

62. The concept that various organisms dominated this planet during various geological time period and thus placing organisms in a time sequence came from the studies by ?

A. Environmental biologist

B. Paleontologist

C. Marine biologist

D. Social biologist

63. Normally, in the process of osmosis, the net flow of water molecules into or out

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of the cell depends upon differences in the ?

A. Concentration of water molecules inside and outside the cell

B. Concentration of enzymes on either side of the cell membrane

C. Rate of molecular motion on either side of the cell membrane

D. None of these

64. It is possible to date the rocks by comparing the amount of specific radioactive isotopes they contain. Which of the statement is correct in this respect?

A. Older sediment layers have equal amount of these radioactive isotopes as that of the young ones

B. Older sediment layers have less amount of these radioactive isotopes as that of the young ones.

C. Older sediment layers have greater amount of these radioactive isotopes as

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that of the young ones.

D. Older sediment layers did not have these radioactive isotopes

- 65.** Sodium ions are "pumped" from a region of lower concentration to a region of higher concentration in the nerve cells of humans. This process is an example of
- A. Diffusion
 - B. Passive transport
 - C. Osmosis
 - D. Active transport**
- 66.** An unbroken series of species arranged in ancestors to descendent sequence with each later species having evolved from one that immediately preceded it is called?
- A. Biome
 - B. Phyletic lineage**
 - C. Community
 - D. Population

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- 67.** Proteins are made from amino acids by the process of _____?
- A. Hydrolysis
 - B. Pinocytosis
 - C. Dehydration synthesis
 - D. Active transport
- 68.** Biological sciences have a set methodology and it is based on ?
- A. Experimental inquiry
 - B. Esthetic preference
 - C. Philosophical ideas
 - D. Imaginations
- 69.** Which is an organic compound found in most cells?
- A. Water
 - B. Glucose
 - C. Oxygen
 - D. Sodium chloride
- 70.** A series of hypothesis supported by the results of many tests is called ?
- A. Scientific law
 - B. Theory

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C. Data

D. Deduction

71. Which are the four most abundant elements in living cells ?

A. carbon, oxygen, nitrogen, sulfur

B. carbon, oxygen, hydrogen, nitrogen

C. carbon, oxygen, sulfur, phosphorus

D. carbon, sulfur, hydrogen, magnesium

72. Which one is not correct for a productive theory?

A. It is predictive

B. It has explanatory power

C. It discourages suggestion of different hypotheses

D. None of these

73. Conclusion of Mendels work latter became a_____?

A. Scientific hypothesis

B. Theory

C. Scientific law

D. Productive theory

74. Starch is converted into maltose by?

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A. diastase

B. invertase

C. maltase

D. amylase

75. Breeders have developed new and better varieties of food items by using which technique?

A. Pasteurization

B. Hydroponic culture technique

C. Genetic engineering

D. Biological control techniques

76. Co-enzyme is often formed from ?

A. lipid

B. protein

C. inorganic ion

D. vitamin

77. Production of genetically identical copies of organisms/cells by asexual reproduction is called ?

A. Mitosis

B. Replication

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C. Cloning

D. Biological control

78. Messenger RNA is formed in_____?

79. A.nucleus

B.chloroplast

C.mitochondria

D.none of these

80. Astronauts may use which technique to grow fruits and vegetables ?

A. Tissue culture techniques

B. Cloning

C. Pasterisation

D. Hydroponic culture technique

81. Number of chromosomes in E.coli ?

A. 1

B. 2

C. 4

D. 6

82. Which statement is incorrect for pasteurization?

A. It is used to preserve yogurt and milk

B. It was developed by Louis Pasteur.

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C. It involves heating the substance at high temperature for just few sec.

D. It can be used to preserve vegetables and meat.

83. Protein factory is_____?

A. nucleus

B. ribosome

C. golgi complex

D. centriole

84. What is the mode of transmission of Hepatitis virus?

A. Aerosol

B. Parental (via blood)

C. Skin penetration

D. Unknown

85. Smallest disease causing agents in plants are ?

A. virion

B. mycoplasma

C. viroids

D. prions

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86. Which disease can be controlled by vaccination?

- A. Measles
- B. Cancer
- C. Diabetes
- D. Heart attack

87. The major cell infected by the HIV is lymphocyte ?

- A. helper-T
- B. B
- C. both T and B
- D. none of these

88. Vaccine was first developed by_____?

- A. Louis Pasture
- B. Edward Jenner
- C. Jaber Ibn Hayan
- D. Aristotle

89. Pigment present in red algae is_____?

- A. fucoxanthin
- B. phycocyanin

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C. phycoerythrin

D. bilirubin

90. Which disease has been totally eradicated from the world because of effective vaccination?

A. Measles

B. Polio

C. Small pox

D. Hepatitis

91. Nutrition in fungi is _____?

A. Photosynthetic

B. Chemosynthetic

C. Completely parasitic

D. Absorptive heterotrophs

92. Which of the following statement is incorrect about antibiotics?

A. They are used against microorganisms

B. They are always effective against bacteria

C. They are used in diseases like

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tuberculosis and pneumonia

D. They are derived from bacteria only

93. Fungi resemble plants because they lack_____?

A. Cell wall

B. Cytoplasm

C. Centriole

D. Nucleus

94. Which treatment is instituted in a cancerous patient?

A. Antibiotic therapy

B. Radiotherapy

C. Gene therapy

D. None of these

95. Which is a parasitic plant?

A. cuscuta

B. rose

C. ferns

D. mosses

96. Which statement is incorrect for cloning?

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- A. The nucleus of a fertilized egg is replaced by the nucleus from the cell of a fully developed individual
- B. Division of a single egg into one or more separate embryos.
- C. The individual is the mirror image of the parent organism
- D. It involve methods of sexual reproduction

97. True roots absent in_____?

- A. ferns
- B. bryophytes
- C. gymnosperms
- D. angiosperms

98. Removal or degradation of environmental pollutants or toxic materials by living organisms is called_____?

- A. Integrated disease management
- B. Hydroponic culture technique
- C. Pasteurization
- D. Bioremediation

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- 99.** The mechanism for ATP synthesis is _____?
- A. Chemosynthesis
 - B. Photosynthesis
 - C. Phosphorylation
 - D. Chemiosmosis**
- 100.** Which of the following is not a viral disease?
- A. Cowpox
 - B. Mumps
 - C. Tetanus**
 - D. Small pox
- 101.** Enzyme present in the saliva is _____?
- A. lipase
 - B. trypsin
 - C. ptyalin**
 - D. invertase
- 102.** In human body 99% of total mass is formed of _____?
- A. 16 Bio-elements
 - B. 12 Bio-elements

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C. 10 Bio-elements

D. 6 Bio-elements

103. Nitrogen is present in_____?

A. carbohydrates

B. proteins

C. lipids

D. carbonates

104. Biological organization is_____?

A. simple

B. advance

C. complex

D. highly complex

105. Operculum is present in_____?

A. bony fish

B. sea fish

C. cartilaginous fish

D. none of these

106. The arrangement of _____ speaks of the division of labour within cell?

A. Molecule

B. Subatomic particles

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C. Atoms

D. Organelles

107. In which animal respiratory surface are found in more than one organ?

A. birds

B. human

C. fish

D. frog

108. Communities are _____ collection of organisms?

A. Static

B. Dynamic

C. May be static or dynamic

D. None of these

109. The heart is enclosed in a membrane called _____?

A. pleura

B. pericardium

C. peritoneum

D. epithelium

110. The number of species of organisms currently known to science is?

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- A. 3500000
- B. 35000
- C. 25000000
- D. 250000000

111. From right ventricle blood is pushed into?

- A. pulmonary trunk
- B. brain
- C. aorta
- D. body

112. What is the branch of biology in which structure and function of tissues are studied_____?

- A. Cell Biology
- B. Taxonomy
- C. Histology
- D. Morphology

113. Biometry is the application of_____ in biology.

- A. Algebra
- B. Statistics

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C. Matrix

D. Geometry

114. Immunology

B. Parasitology

C. Entomology

D. Paleontology

115. The term biology was introduced in _____ in 1800?

A. Germany

B. Turkey

C. Italy

D. Japan

116. Which of the following is the basic unit of classification _____?

A. Species

B. Genus

C. Family

D. Order

117. Euglena belongs to the kingdom _____?

A. Fungi

B. Monera

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C. Protista

D. Non of them

118. Viruses are considered living organisms because_____?

A. They can be crystallized

B. They occur in plants and animals

C. They are microscopic

D. They contain DNA and can be reproduced

119. All of the following are elements that plants need in very small amounts except_____?

A. Iron

B. Hydrogen

C. Chlorine

D. Copper

120. Capillaries are the example of_____?

A. Organ System

B. Cell

C. Organ

D. Tissue

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121. Who discovered the living cell first time?

- A. Robert brown
- B. Robert hooke
- C. Rudolf virchow
- D. Antoni van leeuwenhoek

122. Amoeba can move with the help of?

- A. Flagella
- B. Pseudopodia

- C. Water
- D. Cilia

123. Who is Called the Father of Demography?

- A. ALAN Turing
- B. John Dalton
- C. Charles Babbage
- D. IBN KHALDUN

124. The one which is present in all living things

- A. Cell nucleus
- B. DNA or RNA

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C. Cell membrane

D. Vacuole

125. The study of nature is called_____?

A. Science

B. Atom

C. Molecule

D. Element

126. Animals that eat plants are called_____?

A. Herbivores

B. Consumer

C. Carnivores

D. Omnivores

127. _____ contains the green chemical called chlorophyll.

A. Cytoplasm

B. Cell membrane

C. Chloroplasts

D. Vacuole

128. _____ is a scientific word for human beings?

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A. Animals

B. Homo sepions

C. Omnivore

D. Consumer

129. Lactometer is used for_____?

A. Ship

B. Milk

C. Honey

D. None

130. Density gradient centrifugation separates the materials on the basis of_____?

A. Size alone

B. Density alone

C. Both a & b

D. Velocity of movement

131. Ribosomes are tiny Granules first studied in 1955 by_____?

A. De-Duve

B. Schwann

C. August Weismann

D. Palade

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132. Virus consist of Parts:_____?

A. 1

B. 2

C. 3

D. 4

133. I can break down fatty acid to succinate_____?

A. Peroxisome

B. Glyoxisome

C. Lysosome

D. Golgi bodies

134. Mitosis is divided into_____?

A. Karyokinesis

B. Cytokinesis

C. Interphase

D. Both a & b

135. Ribosomes and DNA are also present in_____?

A. mitochondria

B. golgi complex

C. endoplasmic reticulum

D. lysosomes

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136. Taking in liquid material into the cells is known as_____?

A. Phagocytosis

B. Pinocytosis

C. Exocytosis

D. Both a and b

137. Under a compound microscope chromosome is made of arms and_____?

A. Centromere

B. Centrosome

C. Chromatid

D. Centromere

138. The main types of plastids are_____?

A. chloroplasts

B. chromoplasts

C. leucoplasts

D. all a,b,c

139. Fibers of the extracellular matrix is the characteristics of_____?

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- A. Plant cell wall
- B. Bacterial cell wall
- C. Cell membrane of bacteria
- D. Fluid mosaic model of cell membrane

140. The process involved in inflammation of liver_____?

- A. apoptosis
- B. Necrosis
- C. Both a & b
- D. Non disjunction

141. Polysome is formed during _____ process?

- A. Transcription
- B. Secretion
- C. Translation
- D. Division

142. In 1831, the presence of nucleus in the cells was reported by_____?

- A. Robert Koch
- B. Robert Hooke
- C. Robert Mug Abe
- D. Robert Brown

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- 143.** 7 Secretions are products formed within cell on _____?
- A. E.R
 - B. Golgi bodies**
 - C. Ribosome
 - D. Nucleus
- 144.** On average there are _____ or more thylakoid per granum?
- A. 60
 - B. 50**
 - C. 40
 - D. 70
- 145.** Un-separated replica of chromosome is called _____?
- A. Chromatin
 - B. Kinetochore
 - C. Chromatid**
 - D. Centromere
- 146.** A-biogenesis means that _____?
- A. Living things originated from bacteria
 - B. Mycobionts

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C. Non-living things

D. None of these

147. The tumours which are of small size and localized are_____?

A. **benign**

B. malignant

C. gentle

D. nasty

148. PCR stand for _____?

A. **Polymerase chain reaction**

B. Poly carbomyl reaction

C. Peptide chain reaction

D. Pentapeptide chain reaction

149. The innate tendency of offspring to resemble their parents is called_____?

A. **heridity**

B. heridisk

C. varaition

D. none

150. Ribosomes were discovered by_____?

A. Golgi

B. De Duve

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C. Palade

D. R. Brown

151. Which character differentiates living things from non-living organisms_____?

A. They live in the same ecosystem.

B. They are acted upon by the same environment

C. They are highly organized and complex made of one or more cells and contain genetic material

D. Both a and b

152. The study of fossils is called_____?

A. Environmental Biology

B. Historical biology

C. Palaeontology

D. Social biology

153. A chemical substance that reacts with enzyme but is not transformed into product and thus blocking active site is called_____?

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A. Substrate

B. Co-factor

C. Inhibitor

D. Promotor

154. The experiments on DNA molecules in chromosomes for knowing the basis of inherited diseases are conducted by_____?

A. Molecular biologists

B. Microbiologists

C. Freshwater biologists

D. Social biologist

155. Percentage of water in brain cells is_____?

A. 20%

B. 65%

C. 85%

D. 89%

156. The atoms of different elements combine with each other through ionic or covalent bonding to produce

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compounds this stable form is called_____?

A. An organ

B. A molecule

C. Tissue

D. Both a and c

157. Different species of plants and animals living in the same habitat is called _____?

A. Population

B. Community

C. Biome

D. Habitat

158. In animals coordination is achieved by means of_____?

A. Respiratory system

B. Nervous system

C. Endocrine system

D. Both b and c

159. _____ is the potential source of chemical energy for cellular activities?

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A. C-H bond

B. C-O bond

C. C-N bond

D. P-O-C bond

160. The branch of biology which deals with the study of social behavior and communal life of human beings living in any environment is called_____?

A. Environmental biology

B. Social biology

C. Human biology

D. Both b and c

161. The concept that various organisms dominated this planet during various geological time period and thus placing organisms in a time sequence came from the studies by_____?

A. Environmental biologist

B. Paleontologist

C. Marine biologist

D. Social biologist

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- 162.** Group of living organisms of the same species living in the same place at the same time is called_____?
- A. Community
 - B. Population**
 - C. Ecosystem
 - D. Biome
- 163.** Control of organisms by using living organisms is called_____?
- A. Bioremediation
 - B. Integrated disease management
 - C. Antisepsis
 - D. Biological control**
- 164.** Which one is a micromolecule_____?
- A. Polysaccharide
 - B. Protein
 - C. Hemoglobin
 - D. ATP**
- 165.** Unbroken series of organisms arranged from ancestor to descendant sequence is_____?

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A. Biodiversity

B. Phyletic lineage

C. Connecting link

D. Evolutionary line

166. Out of 92 naturally occurring chemical elements how many are considered as bio-elements_____?

A. 6

B. 16

C. 26

D. 15

167. A large regional community primarily determined by climate is called_____?

A. Population

B. Community

C. Biome

D. Habitat

168. Branch of biology which deals with the study of chemical components and chemical processes in living organisms is called_____?

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A. Molecular biology

B. Physiology

C. Biochemistry

D. Atomic biology

169. A structure formed by groups of similar cells organized into loose sheets or bundles performing similar functions is called as _____?

A. An organ

B. An organism

C. A Tissue

D. A Cell

170. Oxygen accounts for _____ percent of total human body mass?

A. 65%

B. 18%

C. 10%

D. 3%

171. Out of total organisms on earth, _____ are vascular plants?

A. 53.10%

B. 19.90%

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C. 17.60%

D. 9.40%

172. Breakdown of large molecules into smaller ones utilizing water molecules is_____?

A. Hydration

B. Hydrolysis

C. Dehydration synthesis

D. Electrolysis

173. Intake of liquid material by cell membrane is called_____?

A. Endocytosis

B. Exocytosis

C. Phagocytosis

D. Pinocytosis

174. Which one is not correct for a productive theory_____?

A. It is predictive

B. It has explanatory power

C. It discourages suggestion of different hypotheses

D. None of these

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- 175.** _____ is concerned with cell secretions?
- A. Endoplasmic reticulum
 - B. Golgi complex**
 - C. Lysosomes
 - D. Cell membrane
- 176.** Sythetic insulin from pork was formed by which technique_____?
- A. Parasitology
 - B. Social biological techniques
 - C. Biotechnology**
 - D. Both a and c
- 177.** Cytoskeleton involved in assembly and disassembly of the spindle during mitosis is of_____?
- A. Microtubules**
 - B. Microfilaments
 - C. Intermediate filaments
 - D. None of these
- 178.** _____ is used to relieve one kind of headache, migraine?

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- A. Pencillin
- B. Lovastatin
- C. Cyclosporine
- D. Ergotin

179. Bacteria which grow either in the presence or absence of oxygen_____?

- A. Aerobic bacteria
- B. Anaerobic bacteria
- C. Facultative bacteria
- D. Microaerophilic

180. It is possible to date the rocks by comparing the amount of specific radioactive isotopes they contain. Which of the statement is correct in this respect:

- A. Older sediment layers have equal amount of these reaioactive isotopes as that of the young ones
- B. Older sediment layers have less amount of these reaioactive isotopes as that of the young ones.

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C. Older sediment layers have greater amount of these radioactive isotopes as that of the young ones.

D. Older sediment layers did not have these radioactive isotopes

181. Reverse transcriptase is present in_____?

A. All RNA viruses

B. All DNA viruses

C. All retroviruses

D. All viruses

182. Destruction of all life forms is called_____?

A. Sterilization

B. Disinfection

C. Antisepsis

D. Preservation

183. Pox viruses are_____?

A. RNA non-enveloped

B. RNA enveloped

C. DNA non-enveloped

D. DNA enveloped

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184. Pollen grains in pinus have _____ for dispersal through wind?

A. Flagella

B. Cilia

C. Wings

D. Feathers

185. The single healthy megaspore retained within the megasporangium germinates to form an egg containing female gametophyte called _____?

A. Ovule

B. Seed

C. Fruit

D. Embryo sac

186. Alternation of generations is absent in _____?

A. Hydrata

B. Obelia

C. Jelly fish

D. Physalia

187. Double fertilization is feature of _____?

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- A. Ferns
- B. Whisk ferns
- C. Gymnosperms
- D. Angiosperms

188. If bile pigments are prevented from leaving digestive tract, then they cause_____?

- A. Hepatitis
- B. Jaundice
- C. Gall stones
- D. Blockage

189. Initial pH of food vacuole during digestion in amoeba is_____?

- A. 5.3
- B. 5.6
- C. 7.3
- D. 7.6

190. The arrangement of _____ speaks of the division of labour within cell?

- A. Molecule
- B. Subatomic particles

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C. Atoms

D. Organelles

191. NADH is oxidized by_____?

A. Coenzyme ?

B. Cytochrome b

C. Oxygen

D. Glycolysis

192. Salivary glands present in front of ear are_____?

193. 0

A. Sublingual

B. Submaxillary

C. Submandibular

D. Parotid

194. How many spiracles are present in cockroach_____?

A. 5

B. 10

C. 20

D. 40

195. Which of the following is the correct sequence in the biological method?

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A. Observation?hypothesis?law?theory

B.

Observation?hypothesis?deduction?testing of deduction

C.

Hypothesis?observation?deduction?testing of deduction

D. law?theory?deduction?observation

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- 196.** Amphibians are considered to be evolved from_____?
- A. Newts
 - B. Varanope
 - C. Dipnoi**
 - D. Hagfishes
- 197.** Enterobius vermicularis is commonly known as_____?
- A. Flatworm
 - B. Pinworm**
 - C. Hook worm
 - D. Tapeworm
- 198.** Red to orange pigments are_____?
- A. Carotenes**
 - B. Carotenoids

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C. Xanthophylls

D. Chlorophyll

199. Animals of which class of arthropoda are present everywhere_____?

A. Crustacean

B. Insecta

C. Arachnida

D. Myriapoda

200. Gaseous exchange in birds occurs at level of_____?

A. Alveoli

B. Air sacs

C. Bronchi

D. Parabronchi

201. _____ of earth surface is covered with water?

A. 10%

B. 30%

C. 75%

D. 90%

202. An antibody is made of _____ polypeptide chains?

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A. 1

B. 2

C. 3

D. 4

203. Production of genetically identical copies of organisms/cells by asexual reproduction is called_____?

A. Mitosis

B. Replication

C. Cloning

D. Biological control

204. 95% of the cytoplasm of RBCs is_____?

A. Hemoglobin

B. Enzymes

C. Salts

D. Other proteins

205._____ cells of phloem are directly involved in transport of organic solutes?

A. Parenchyma

B. Companion cell

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C. Tracheid

D. Sieve element

206. An infectious disorder of respiratory system is_____?

A. Cancer

B. Asthma

C. Tuberculosis

D. Emphysema

207. Cuticular transpiration is _____ of total transpiration?

A. 1-2%

B. 3-4%

C. 5-7%

D. 90%

208. According to cohesion-tension theory, tension is created by_____?

A. Hydrogen bonding

B. Transpiration

C. Adhesion

D. Root prerssure

209. Deoxygenated blood first enters in _____ part in fishes?

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A. Sinus venosus

B. Right atrium

C. Left atrium

D. Conus arteriosus

210. Ozone depletion occurs commonly due to _____?

A. Carbon dioxide

B. Chlorofluorocarbons

C. UV rays

D. Deforestation

211. Who coined the term CELL?

A. Schwann

B. Schleiden

C. Robert Hook

D. Both a and b

212. "lubb" sound is produced due to _____?

A. Opening of inlet valve

B. Closure of inlet valve

C. Opening of outlet valve

D. Closure of outlet valve

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- 213.** In condition of high temperature, following does not occur or occurs at low level_____?
- A. Vasodilation
 - B. Activation of sweat glands
 - C. Thermogenesis**
 - D. Evaporative cooling
- 214.** Who first observed and thus hypothesized that new cells are formed from previously existing living cell?
- A. Theodor Schwann and Schleiden
 - B. Rudolph Virchows**
 - C. Louis Pasteur
 - D. Both b and c
- 215.** In Hardy-Weinberg formula P^2 represents frequency of_____?
- A. Recessive allele
 - B. Dominant allele
 - C. Homozygous dominant individual**
 - D. Homozygous recessive individual
- 216.** _____ supported theory of special creation?

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A. Linnaeus

B. Aristotle

C. Mendel

D. Lamarck

217. Percentage of proteins in cell membrane is_____?

A. 20-40%

B. 40-50%

C. 60-80%

D. 80-100%

218. Which of the following is most constant abiotic component of ecosystem_____?

A. Air

B. Water

C. Land

D. Gravity

219. Ecosystem not found in Pakistan is_____?

A. Tropical rain forest

B. Temperate deciduous forest

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C. Grassland

D. Tundra

220. Movement of the material across the cell membrane which does not requiring expenditure of metabolic energy is called_____?

A. Active transport

B. Passive transport

C. Co-transport

D. Counter transport

221. The productivity of aquatic ecosystem is basically determined by light and_____?

A. CO₂

B. O₂

C. Water

D. Nutrients

222. The first layer of cell wall which is formed is_____?

A. Primary wall

B. Secondary wall

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C. Middle lamella

D. All of these

223. Annual rainfall in grassland is about_____?

A. More than 2500 mm

B. 750-1500 mm

C. 250-750 mm

D. Less than 250 mm

224. Conversion of ammonia or ammonium ion into nitrites during nitrogen cycle occurs due_____?

A. Rhizobium

B. Nitrosomonas

C. Nitrobacter

D. Pseudomonas

225. Cellulose is the major component of_____?

A. Primary wall

B. Secondary wall

C. Middle lamella

D. all of the above

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226. Humming bird is an example of _____?

- A. Cold blooded animal
- B. Ectotherm
- C. Endotherm
- D. Heterotherm

227. Number of cervical vertebrae is _____?

- A. 5
- B. 7
- C. 9
- D. 12

228. Autophagosomes are _____?

- A. Those lysosomes which eat parts of their own cells to generate energy.
- B. Those lysosomes which eat old and worn out cellular organelles.
- C. Lysosomes which help in extracellular digestion
- D. Both a and b

229. Sapwood is formed from _____?

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A. Primary xylem

B. Secondary xylem

C. Primary phloem

D. Secondary phloem

230. Which of the following cytoskeletal fiber contain tubulin protein?

A. One which help in assembly of spindles during mitosis.

B. One involved in internal cell motion.

C. One involved in maintenance of cell shape.

D. Both b and c

231. Only myosine is present in_____?

A. A band

B. I band

C. H zone

D. Sarcomere

232. Joints present in skull are example of_____?

A. Fibrous joints

B. Cartilaginous joints

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C. Synovial Joints

D. Slightly moveable joints

233. The human naked eye can differentiate between two points which are _____ apart?

A. 1.0 mm

B. 0.1 mm

C. 1.0 cm

D. 1.0 dm

234. _____ is a nervous disorder characterized by involuntary tremors, diminished motor power and rigidity?

A. Epilepsy

B. Meningitis

C. Alzheimer's disease

D. Parkinson's disease

235. Of the following which one is not the characteristic of mitochondria?

A. It contains F1 particles

B. It is involved in the synthesis of protein

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C. It is a self replicating organelle

D. Number of mitochondria is constant

236. In human female, fertilization commonly occurs at_____?

A. Proximal part of oviduct

B. Distal part of oviduct

C. Uterus

D. Cervix

237. The part of chloroplast where CO₂ is fixed to manufacture sugar is_____?

A. Stroma

B. Grana

C. Thylakoid

D. Outer membrane

238. Highest form of learning is_____?

A. Latent learning

B. Insight learning

C. Operant conditioning

D. Instinct

239. Which of the following hormone is polypeptide in nature_____?

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- A. Insulin
- B. Thyroxine
- C. ADH
- D. Cortisone

240. Ribosomes are assembled in_____?

- A. Nucleolus
- B. Nucleus
- C. DNA
- D. RNA

241. Far-red light promotes flowering in_____?

- A. Short day plant
- B. Long day plant
- C. Day neutral plant
- D. None of these

242. Which of the following is not present in mitochondria?

- A. Enzymes
- B. Co-enzymes
- C. Ribosomes
- D. Thylakoids

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243. Secretin inhibits production of _____?

- A. Gastric juice
- B. Pancreatic juice
- C. Bile
- D. All of these

244. Yellowish glandular structure which produces progesterone is _____?

- A. Graffian follicle
- B. Ovary
- C. Corpus luteum
- D. Placenta

245. The spent energy in the form of ADP is regenerated by mitochondria into _____?

- A. AMP
- B. ADP
- C. ATP
- D. All of these

246. XO-XX pattern of sex determination is present in _____?

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A. Grasshopper

B. Butterfly

C. Drosophila

D. Man

247. On which of the following component of chloroplast chlorophyll is arranged?

A. Cell membrane

B. Matrix

C. Thylakoids

D. Stroma

248. An example of codominance is _____?

A. A' blood group

B. B' blood group

C. O' blood group

D. AB' blood group

249. Test cross is used to find _____?

A. Trait

B. Phenotype

C. Genotype

D. Ratios

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250. Number of nuclear pores/nucleus in an RBC are_____?

A. 1?3

B. 3?4

C. 10000

D. 30000

251. Yellow cytoplasm in ascidian gives rise to_____?

A. Epidermis

B. Muscle cells

C. Gut

D. Notochord

252. Chlorophyll molecule contrains _____ as central metal ion.

A. Fe^{2+}

B. Mg^{2+}

C. Zn^{2+}

D. Cu^{2+}

253. Okazaki fragments are connected together through action of_____?

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- A. Primase
- B. Polymerase
- C. Helicase
- D. Ligase

254. Which of the following combination is an example of self replicating organelles?

- A. Mitochondria Ribosomes
- B. Mitochondria Nucleus
- C. Mitochondria Chloroplast
- D. Mitochondria Vacuole

255. Which of the following is an autosomal disorder_____?

- A. Down's syndrome
- B. Klinifelter's syndrome
- C. Turner's syndrome
- D. Jacob's syndrome

256. The place of centromere where spindle fibres get attached is_____?

- A. Kinetochore
- B. Kinochore

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C. Centromere region

D. all of these

257. Embryonic induction is caused by part developing from_____?

A. Endoderm

B. Ectoderm

C. Mesoderm

D. Extraembryonic layers

258. Sickle cell anemia is an example of_____?

A. Chromosomal aberration

B. Insertion of gene

C. Deletion of gene

D. Point mutation

259. The type of plastids which help in pollination is_____?

A. Chromoplasts

B. Leucoplasts

C. Chloroplasts

D. All of these

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260. Purines and pyrimidines are in equal ratio in DNA. It was indicated by_____?

A. F.Miescher

B. Chargaff

C. Watson & Crick

D. Harshay & Chase

261. Chlorophyll is a/an _____ molecule?

A. Inorganic

B. Cationic

C. Anionic

D. Organic

262. Ribonucleo-protein particles are the name of_____?

A. DNA

B. Nucleus

C. Eukaryotic ribosomes

D. RNA

263. Lock and Key model was proposed by_____?

A. **Emil Fischer**

B. Koshland

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C. Robin Williams

D. Rudolph Virchow

264. Which step causes activation of catalytic site of an enzyme_____?

A. Change in pH of the surroundings.

B. Formation of Enzyme Susstrate complex.

C. Change in the charge of the active site.

D. Change in temperature

265. Amoeboid movements and movement of cyclosis is due to_____?

A. **Microfilaments**

B. Microtubules

C. Intermediate filaments

D. Cytoskeleton

266. Enzymes _____ the activation energy of a chemical reaction?

A. Increases

B. Decreases

C. Does not effect

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D. Increases or decreases depending upon individual enzyme

267. Which one forms the raw material for coenzymes_____?

A. **Vitamins**

B. Carbohydrates

C. Proteins

D. Metals

268. Proteins and lipids are converted into glycolipids and glycoproteins by adding carbohydrates by_____?

A. Ribosomes

B. Cytoplasm

C. Golgi apparatus

D. Endoplasmic reticulum

269. Biological molecules (proteins) which catalyze a biochemical reaction and remain unchanged after completion of reaction are called_____?

A. Cofactor

B. Coenzymes

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C. Activator

D. Enzymes

270. In which of the following location enzymes controlling cellular respiration are present_____?

A. Nucleus

B. Chloroplast

C. Mitochondria

D. Ribosome

271. In golgi apparatus the maturing face is_____?

A. Biconcave

B. Convex

C. Spherical

D. Concave

272. A cofactor made of inorganic ion which is detachable is called_____?

A. Prosthetic group

B. Coenzyme

C. Activator

D. Cofactor

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273. An activated enzyme consisting of polypeptide chain and a cofactor is called_____?

- A. Apoenzyme
- B. Holoenzyme
- C. Activated enzyme
- D. Both b and c

274. Centrioles are composed of _____ triplets of microtubules.

- A. 3
- B. 9
- C. 10
- D. 15

275. Which statement about enzyme is incorrect_____?

- A. Some of them consist solely of protein with no non protein part.
- B. They catalyze a chemical reaction without being utilized.
- C. All enzymes are fibrous Proteins.
- D. They without their cofactor are called apoenzyme.

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276. A three dimensional dcavity bearing a specific charge by which the enzyme reacts with its substrate is called_____?

- A. Active site
- B. Binding site
- C. Catalytic site
- D. Allosteric site

277. Cellular organelles related with H₂O₂ are_____?

- A. Glyoxisomes
- B. Lysosomes
- C. Peroxisomes
- D. Ribosomes

278. If more substrate to already occurring enzymatic reaction is added more enzyme activity is seen because_____?

- A. There is probably more substrate present than there is enzyme.
- B. There is probably more enzayme available than there is substrate.

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C. There is probably more product present than there is either substrate or enzyme.

D. The enzyme substrate complex is probably failing to form during the reaction

279. A group of ribosomes attached to mRNA is known as_____?

A. Polymer

B. Polypeptide

C. Polysomes

D. Monomer

280. The rate of reaction is directly proportional to the concentration of an enzyme which statement is incorrect in this respect_____?

A. Increase in enzyme molecule increases the available active sites.

B. This relation is for unlimited time period with unlimited enzyme concentration

C. If the concentration is doubled the

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rate will become two fold.

D. None of these.

281. Which statement is incorrect about Lock and Key Model_____?

A. Specific enzyme can transform only a specific substrate

B. Active site of an enzyme is a non flexible structure

C. Active site does not change before during or even after the reaction

D. It explains the mechanism of every chemical reaction

282. If the concentration of enzyme is kept constant and amount of substrate is increased a point is reached where increase in substrates concentration does not affect the reaction rate because of_____?

A. Enzymes get denatured at higher substrate conc

B. Rate of reaction is indirectly proportional to substrate concentration

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at this point

C. All the active sites on enzyme molecule are occupied

D. None of these

283. The active site of an enzyme_____?

A. Never changes

B. Forms no chemical bond with substrate

C. Determined by structure and the specificity of the enzyme

D. They are non specific in their action

284. Factory of Ribosomal synthesis is_____?

A. Cytoplasm

B. Nucleus

C. Nucleolus

D. Endoplasmic reticulum

285. If more substrate to already occurring enzymatic reaction is added and there is no effect on the rate of the reaction

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what is the form given to this situation_____?

- A. Saturation
- B. Denaturation
- C. Composition
- D. Inhibition

286. Who opposed the idea the cell is an empty space bounded by thick wall?

- A. Lorenz Oken
- B. Schwann
- C. Robert Brown
- D. Rudolph Virchow

287. Extreme change in pH results in_____?

- A. Change in ionization of amino acids at the active site of the enzyme
- B. Change in the ionization of the substrate

C. Denaturation of the enzyme

D. Increase in the reaction rate

288. Resolution power of a compound microscope is_____?

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A. 2.0 ?m

B. 2-4 A

C. 24 ?m

D. 24 A

289. Excessive increase in temperature of medium causes the enzyme molecule to _____?

A. Activate

B. Unaffected

C. Denatured

D. None of these

290. If enzyme concentration is low than substrate pH and temperature values are equal to requirement then which of the following will increase rate of reaction _____?

A. increase in concentration of enzyme

B. increase in concentration of substrate

C. increase in pH

D. increase in temperature

291. In cell fractionation various components of cells including its

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organelles can be isolated in different layers depending upon_____?

A. Their physical properties like size & weight.

B. Physical properties of the medium like its density.

C. Their electrical properties like their charges

D. Both a and b

292. The structure of an enzyme is altered by_____?

A. Irreversible inhibitor

B. Reversible inhibitor

C. Competitive inhibitor

D. Non-competitive inhibitor

293. Malonic acid is an example of_____?

A. Irreversible inhibitor

B. Reversible inhibitor

C. Competitive inhibitor

D. Non-competitive inhibitor

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294. Magnifying power of electron microscope as compared to eye is _____?

A. 500 X

B. 250000X

C. 500000X

D. 250X

295. Inhibitors which block the enzyme by forming weak bond are called _____?

A. Competitive inhibitors.

B. Non-competitive inhibitors

C. Irreversible inhibitors.

D. Both a and b

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296. Which of the statement about cell membrane is not true?

A. It contains protein molecules embedded in lipid bilayer

B. It is a differentially permeable membrane.

C. It contains charged pores thus ions being charged particles cross cell membrane much easier than neutral particles.

D. It may get infolded to engulf solid or liquid material.

297. A substance which binds at the active site of the enzyme but does not result in the formation of the products is called _____?

A. Irreversible inhibitor

B. Reversible inhibitor

C. Competitive inhibitor

D. Non-competitive inhibitor

298. A chemical substance which can react (in place of substrate) with the enzyme

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but is not transformed into product/s and thus blocks the active site temporarily or permanently is called_____?

A. Co-enzyme

B. Blocker

C. Inhibitor

D. Cofactor

299. Optimal temperature of enzymes present in human body is_____?

A. 27°C

B. 37°C

C. 47°C

D. 30°C

300. Strengthening material of prokaryotic cell wall is_____?

A. Cellulose

B. Chitin

C. Inorganic salts silica waxes and lignin

D. Peptidoglycan or Murein.

301. Spherical or tubular membranes which separate the material present in

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endoplasmic reticulum from that of cytoplasmic material are called_____?

- A. Cytosol
- B. Cisternae
- C. Polysomes
- D. Cristae

302. Whone is not the function of endoplasmic reticulum?

- A. Nerve impulse conduction
- B. Transport of material
- C. Mechanical support

D. Synthesis of conjugated molecules

303. 60S and 40S subunit combine to form _____ particle.

- A. 100 S
- B. 90 S
- C. 80 S
- D. 70 S

304. Pancreas produces secretory granules that help in digestion. These granules after passing through endoplasmic

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reticulum are pinched off from _____
surface of Golgi apparatus:

A. Forming face

B. Maturing face

C. Any of them

D. None of these

305. Which of the following statement is incorrect about Glyoxisomes?

A. They contain enzymes which help in conversion of fatty acids into carbohydrate

B. They are abundant in soyabeans but absent in pea.

C. They are present through out life of a plant and provide them whth energy through Glyoxylate cycle.

D. They are signle membranous organelles

306. Ribosomes + m-RNA?

A. Polysome

B. Phlosome

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C. Polosome

D. None of these

307. Which of the following impart a red colour to Rose petals?

A. Chloroplast

B. Chlorophyll

C. Chromoplast

D. Leucoplast

308. During digesting the phagocytosed food particles vesicles formed from fusion of phagocytic vacuole with the enzymes secreted by Golgi apparantus are called_____?

A. Lysosomes

B. Primary lysosomes

C. Secondary lysosomes

D. Food vacuole

309. The bond formed when two or more atoms complete their electron shells by sharing electrons is called_____?

A. Ionic bond

B. Hydrogen bond

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C. Covalent bond

D. Electrovalent bond

310. Which one is the basic element of organic compounds _____?

A. Oxygen

B. Hydrogen

C. Sulphur

D. Carbon

311. Reactions in which simple substances are combined to form complex substances are called _____?

A. Metabolic reactions

B. Catabolic reactions

C. Anabolic reactions

D. None of these

312. Which chemical component has the same % in bacterial as well as the mammalian cell _____?

A. Water

B. Carbohydrate

C. Proteins

D. Lipids

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313. The branch of biology which deals with the study of chemical compounds and the chemical processes in the fliving organisms is called_____?

A. Chemistry

B. Biochemistry

C. Molocular biology

D. Both a and b

314. Which chemical component has the greatest contribution in the total mammalian cell weight_____?

A. Proteins

B. Carbohydrate

C. Lipids

D. Water

315. Which one is an organic compound_____?

A. CO₂

B. Water

C. Lipids

D. HCl

316. Carbon atom is_____?

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A. Monovalent

B. Divalent

C. Trivalent

D. Tetravalent

317. The property of water due to which it works as a temperature stabilizer and hence protect living organisms from sudden thermal changes is _____?

A. High specific heat of vaporization

B. High specific heat capacity

C. Its Dipole nature

D. Its liquid state

318. The number of calories required to raise the temperature of 1g of water from 15 to 16°C is called _____?

A. Specific Heat of Vaporization

B. Specific Heat capacity

C. Caloric Heat

D. Both A and C

319. The one which is present in all living things is _____?

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- A. Cell nucleus
- B. DNA or RNA
- C. Cell membrane
- D. Vacuole

320. The mechanism of stomatal movement is related to the branch of Biology called_____?

- A. Taxonomy
- B. Physiology
- C. Morphology
- D. Anatomy

321. Which of the following substance is most favorable to form structural component of biological membranes_____?

- A. Hydrophilic Carbohydrates
- B. Hydrophobic fats.
- C. Both a and b
- D. None of these

322. Maximum number of species of living things on earth are_____?

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- A. Algae
- B. Fungi
- C. Insects
- D. Protozoa

323. Which statement is true about an aqueous medium_____?

- A. Ionic as well as non ionic substance in aqueous media retains their identity
- B. Enzymes can not perform catalysis reaction in this medium
- C. Ions and molecules move randomly thus are in more favorable state to react with other molecules and ions
- D. It is less favorable media for chemical reactions

324. Which of the following carbohydrate is tasteless_____?

- A. Monosaccharide
- B. Oligosaccharide
- C. Polysaccharide
- D. None of these

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- 325.** Which of the statement is not true for compounds like glycoprotein and glycolipids_____?
- A. They are conjugated molecules of carbohydrates
 - B. Both have role in the extra cellular matrix of animals and bacterial cell wall
 - C. They are components of biological membranes.
 - D. Both are produced and secreted by endoplasmic reticulum
- 326.** A complex substance which on hydrolysis yields polyhydroxy aldehyde or ketone subunits is called_____?
- A. Lipid
 - B. Carbohydrate
 - C. Protein
 - D. Carotein
- 327.** Specific heat of vaporization of water is_____?
- A. 574 Kcal/kg
 - B. 674 Kcal/kg

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C. 774 Kcal/kg

D. 874 Kcal/kg

328. $C_n(H_2O)_n$ is a general formula of_____?

A. Monosaccharides

B. Oligosaccharides

C. Polysaccharides

D. Carbohydrates

329. Which one are most complex sugar_____?

A. Monosaccharides

B. Oligosaccharides

C. Polysaccharides

D. None of these

330. Variety among amino acids is produced due to_____?

A. NH_2 group

B. $COOH$ group

C. R group

D. All of these

331. Primary structure of proteins determines_____?

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A. Number of polypeptide chains involved

B. Bending of polypeptide chains

C. Amino acid sequence

D. Coiling of polypeptide chains

332. Ribose is an example of_____?

A. Trioses

B. Tetroses

C. Pentose

D. Hexose

333. The one which is not a globular protein_____?

A. Anti Rh-antibody

B. Enzyme

C. Myosin

D. Haemoglobin

334. Starch cellulose and glycogen yield _____ on complete hydrolysis?

A. Maltose

B. Sucrose

C. Fructose

D. Glucose

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- 335.** _____ % of Glucose normally present in our blood is?
- A. 0.80%
 - B. 0.08%**
 - C. 1.80%
 - D. 8%
- 336.** Which of the following carbohydrate can not be hydrolysed _____?
- A. Monosaccharide**
 - B. Oligosaccharide
 - C. Polysaccharide
 - D. None of these
- 337.** An enzyme which converts a dipeptide into separate amino acids is an example of _____?
- A. Decarboxylase
 - B. Hydrolase**
 - C. Oxidoreductase
 - D. Transferase
- 338.** Which one is soluble in hot water _____?

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A. Starch

B. Glycogen

C. Amylose

D. Amylopectin.

339. For the synthesis of 10g of glucose
_____ of energy is required?

A. 717.6 Kcal

B. 727 Kcal

C. 737 Kcal

D. 747 Kcal

340. Cellular digestion is associated with
which organelle_____?

341. 0

A. Mitochondria

B. Golgi bodies

C. Plastids

D. Lysosomes

342. The covalent bond between two
monosaccharide subunits is
called_____?

A. Phosphodiester bond

B. Peptide bond

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C. Glycosidic Bond

D. Ionic bond

343. The unicellular organisms ingest large molecules into their cytoplasm from the external environment without previously digesting them. This process is called_____?

A. Diffusion

B. Osmosis

C. Phagocytosis

D. Plasmolysis

344. Which of the following polysaccharide is called animal starch_____?

A. Starch

B. Glycogen

C. Cellulose

D. None of these

345. Which one gives blue colour with iodine_____?

A. Starch

B. Glycogen

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C. Cellulose

D. Polysaccharide

346. Mycoplasmas have been included in bacteria because:

A. Do not have a cell wall

B. Are heterotrophic

C. Lack membrane bounded organelles

D. Reproduce by binary fission

347. Which one is abundant in animals_____?

A. Starch

B. Glycogen

C. Cellulose

D. None of these

348. The one which can tolerate highest external osmotic pressure is _____?

A. Algae

B. Amoeba

C. Fungi

D. Bacteria

349. The cell wall of oomycetes is chiefly composed of_____?

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A. Chitin

B. Cellulose

C. Lignin

D. Proteins

350. _____ is example of pure form of cellulose?

A. Silk

B. Wool

C. Cotton

D. Paper

351. A compound produced as a result of a chemical reaction of an alcohol with an acid in which water molecule is released is called _____?

A. Monosaccharide

B. Fatty acid

C. Neutral lipid

D. Nucleic acid

352. Lipids are soluble in which of the following _____?

A. Water

B. Ether

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C. All solvents

D. Not in any of the above

353. One celled green ptotists are included in_____?

A. Monera

B. Algae

C. Slime molds

D. Plants

354. Lipid molecules can store double amount of energy as compared to same amount of carbohydrate because of high number of_____?

A. C-C bonds

B. C-H bonds

C. C-N bonds

D. C-O bonds

355. Fatty acids containing 18 C atoms and a single double bond is_____?

A. Saturated Fatty acid

B. Unsaturated fatty acid

C. Oleic Acid

D. Plamitic acid

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356. Pick the odd one out

A. Psilophyton

B. Rhynia

C. Cooksonia

D. Psilotum

357. Which of the following statement is incorrect for fats containing unsaturated fatty acid_____?

A. They contain double bond

B. They are usually solid at room temperature

C. They are lighter than water

D. Their specific gravity is less than 1

358. Which one the following fatty acid is more soluble in an organic solvent and has higher melting point_____?

A. Acetic acid

B. Butyric acid

C. Palmitic acid

D. All have same

359. Peptide bond is_____?

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A. C-N link

B. C- O lind

C. N-H link

D. C-H link

360. Animals obtain carbohydrates mainly from_____?

A. Glucose

B. Starch

C. Sucrose

D. Glycogen

361. The one which is incorrect pair?

A. Sori – Indusium

B. Arthrophytes – Jointed

C. Dichotomous – Vernation

D. Lycopods – Ground pries

362. Double fertilization occurs in_____?

A. All plants

B. All seed plants

C. Gymnosperms

D. Angiosperms

363. Proteins comprise of _____% of the total dry weight of a cell?

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A. 40%

B. 50%

C. 60%

D. 70%

364. Adult birds normally possess only one functional_____?

A. Ureter

B. Ovary

C. Lung

D. Testis

365. Chemical component/s less in eukaryotic cell as compared to prokaryotic cell is / are (i) lipids (ii) carbohydrates (iii) proteins (iv) DNA_____?

A. i & ii

B. iii & iv

C. i ii iii & iv

D. iv only

366. Following possess bilateral symmetry as larva and radial symmetry as adult:

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- A. Chordata
- B. Hydra
- C. Echinodermata
- D. Hemichordata

367. Proteins are polymers of_____?

- A. Fatty acids
- B. Isoprenoid units
- C. Amino acids
- D. Nucleotides

368. Which of the following is the empirical formula of chlorophyll b?

- A. $C_{55}H_{70}O_5N_4Mg$
- B. $C_{55}H_{72}O_6N_4Mg$
- C. $C_{55}H_{70}O_6N_4Mg$
- D. $C_{55}H_{72}O_5N_4Mg$

369. In Glycin an amino acid R group is replaced by_____?

- A. H
- B. CH_3
- C. $COOH$
- D. $C = O$

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370. How many moles of carbon dioxide are produced by complete oxidation of one mole of puruvic acid?

A. 1

B. 2

C. 3

D. 6

371. The element in basic structure of proteins which differentiate them from carbohydrates_____?

A. C

B. S

C. H

D. N

372. Hunger pangs usually begin _____ after the previous meal.

A. 2-4 hours

B. 6-8 hours

C. 10-12 hours

D. 12-24 hours

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373. Total number of amino acids discovered so far in cells and tissues are_____?

A. 20

B. 25

C. 150

D. 170

374. The major constituent of blood plasma is_____?

A. Protein

B. NaCl

C. Water

D. Cholesterol

375. An insulin molecule consists of _____ polypeptide chains?

A. 1

B. 2

C. 3

D. 4

376. The windpipe or trachea lies?

A. Dorsal to oesophagus

B. Ventral to oesophagus

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C. Lateral to oesophagus

D. None of these

377. A bond formed by linkage between -OH of carboxyl group of one amino acid and H of amino group of another amino acid which releases water is called_____?

A. Phosphodiester linkage

B. Glycosidic bond

C. Peptide bond

D. Hydrogen bond

378. Total number of amino acids in a hemoglobin molecule are_____?

A. 554

B. 564

C. 574

D. 584

379. Which structure of protein gives information about number and sequence of amino acids in it_____?

A. Primary structure

B. Secondary structure

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C. Tertiary structure

D. Quaternary structure

380. Locomotory structures are not found in which of the following group?

A. Amoebas

B. Zooflagellates

C. Ciliates

D. Apicomplexans

381. Hemoglobin molecule exhibits which structural organization of proteins_____?

A. Primary structure

B. Secondary structure

C. Tertiary structure

D. Quaternary structure

382. Yeasts reproduce asexually by forming_____?

A. Asci

B. Basidia

C. Both a & b

D. Buds

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- 383.** In an aqueous environment the most stable tertiary conformation is that in which _____ amino acids are buried inside the conformation?
- A. **Hydrophobic**
 - B. Hydrophilic
 - C. Basic
 - D. None of these
- 384.** Which of the following statement is incorrect about RNA _____?
- A. The pentose sugar in it is Ribose.
 - B. **It contains Adenine Guanine Thymine and Cytosine**
 - C. It is present in the nucleoli
 - D. It may be folded back on itself to give double helical characteristics.
- 385.** Protein coats of viruses are synthesized in _____?
- A. **Lytic cycle**
 - B. Lysogenic cycle
 - C. Both a & b
 - D. All of these

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386. Each turn of DNA contain _____
nitrogenous base pairs?

A. 5

B. 10

C. 20

D. 25

387. Membranes of the grane are sites
where?

A. Oxygen is stored

B. Food is stored

C. Sunlight is trapped

D. CO₂ is stored.

388. Antibodies play important role against
microorganisms and other pathogens to
which type of proteins do they
belong_____?

A. Globular proteins

B. Fibrous Proteins

C. Both a and b

D. None of these

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389. The simplest of oxygen producing photosynthetic organisms are_____?

- A. Algae
- B. Bacteria
- C. Cyanobacteria
- D. Chlamydomonas

390. Amphioxus is a_____?

- A. Chordate
- B. Protochordate
- C. Lower chordate
- D. All of these

391. Which structural organization is most common in globular proteins_____?

- A. Primary
- B. Secondary
- C. Tertiary
- D. Quaternary

392. Which of the following does not show quaternary structure_____?

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A. Haemoglobin

B. Pepsin

C. Fibrin

D. Insulin

393. Which of the following occurs in anaerobic respiration but not in aerobic respiration?

A. Release of CO₂

B. Reduction of NAD

C. Formation of ATP

D. Production of ethanol from acetaldehyde

394. helical structure is kept by the formation of _____ bonds among amino acids molecules?

A. H bonds

B. Disulphide Bond

C. Ionic bond

D. Hydrophobic bonds

395. Which of the following are triploblastic and acoelomate?

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A. Sponges

B. Annelida

C. Platyhelminthes

D. Aves

396. The food of hydra consists of_____?

A. Humus

B. Detritus

C. Dead microscopic animals

D. Small crustaceans

397. Actin and myosin are the basic proteins involved in contractile machinery of our body to which type of proteins do they belong_____?

A. Globular proteins

B. Fibrous Proteins

C. Both a and b

D. None of these

398. If a plasmolysed plant cell is placed in water the cell will_____?

A. Burst

B. Be Killed

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C. Be deplasmolysed

D. Show no change in it

399. ATP is a an important molecule for its major function_____?

A. As an energy currency of the cell

B. As a coenzyme

C. Both a and b

D. None of these

400. The first organism of whose genome was completely discovered was_____?

A. Human beings

B. Influenza Virus

C. Hemophilus Influenza

D. None of these

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- 401.** Animals fats are _____ at room temperature?
- A. Liquids
 - B. Gases
 - C. Solids**
 - D. None of these
- 402.** Sebum produced from sebaceous glands in a mammal helps in _____?
- A. Protection against micro organisms**
 - B. Temperature regulation
 - C. Excretion
 - D. All of these
- 403.** Which one is not found in fatty acids in acylglycerols _____?
- A. C-6
 - B. C-25**
 - C. C-26
 - D. C-30
- 404.** The one that stores calcium is _____?
- A. Sarcolemma
 - B. Sarcoplasm

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C. Sarcoplasmic reticulum

D. Cytosol

405. Which one of the following is most likely to occur in an animal during winter?

A. Activation of sweat glands

B. Dilation of skin blood vessels

C. Panting

D. Thermogenesis

406. In esterification OH comes from_____?

A. Organic acid

B. Alcohol

C. Water

D. Sugar

407. How many carbon atoms are required to form a furan ring (ribofuranose)_____?

A. 3

B. 4

C. 5

D. 2

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408. Sleep movements are a type of _____?

- A. Turgor movements
- B. Growth movements
- C. Tactic movements
- D. Paratonic movements

409. Keto group is represented as _____?

- A. CO
- B. C-COO-C
- C. HCOH
- D. HOH

410. The type of learning in which there is loss or decrease in response to repeated stimuli?

- A. Imprinting
- B. Habituation
- C. Latent learning
- D. Insight learning

411. Glycolipids and glycoproteins have structural role in the _____ matrix of animal and bacterial cell?

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A. Extracellular

B. Intracellular

C. Both of these

D. Glucose

412. The cells present in testes and secrete testosterone are_____?

A. Sertoli cells

B. Germinal cell

C. Interstitial cells

D. Spermatocyte

413. In $Cx(H_2O)_y$ x ranges from_____?

A. 1 to 3 thousand

B. 3 to many thousand

C. 3 to 5 thousand

D. 5 to 9 thousand

414. Exposure to low temperature stimulates plants to flower. This is called_____?

A. Photoperiodism

B. Thermotropism

C. Vernalisation

D. Thermoregulation

Biology MCQs Part 2 of 3

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- 415.** The basic structural unit of a chromosome is _____?
- A. The centromere
 - B. Nucleosome**
 - C. Telomere
 - D. Histone
- 416.** In living organisms the lubricant which provides protection against damage resulting from friction is _____?
- A. Carbohydrates
 - B. Fatty acid
 - C. Water**
 - D. Protein
- 417.** The first stage of development in which a cavity appears is the _____?
- A. Neurula
 - B. Morula
 - C. Gastrula
 - D. Blastula**
- 418.** The trioses which are intermediate in respiration and photosynthesis are _____?

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- A. Glyceraldehydes
- B. Dihydroxy acetone
- C. Both of these
- D. None of these

419. The one which causes contraction of wall of the uterus during and after birth?

- A. ADH
- B. MSH
- C. Oxytocin
- D. Progesterone

420. The monosaccharide found in some bacteria and occurring rarely are_____?

- A. Trioses
- B. Hexoses
- C. Tetroses
- D. Pentoses

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D. Paratonic movments

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C. Telomere

D. Histone

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D. Progesterone

440. The monosaccharide found in some bacteria and occurring rarely are_____?

A. Trioses

B. Hexoses

C. Tetroses

D. Pentoses

441. Which statement correctly describes the transcription of DNA?

A. It produces another DNA molecule

B. It produces mRNA

C. It is a semi conservation process

D. It occurs at surface of ribosomes

442. Triglyceride is also known as_____?

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A. Natural lipid

B. Neutral lipid

C. Neutral wax

D. All of these

443. Carbon commonly combines with_____?

A. H

B. N & O

C. P & S

D. All of these

444. The sequence of 3 bases on tRNA which is complementary to condon of mRNA is called_____?

A. Gene

B. Anticodon

C. Code

D. Codon

445. The survival of an animal depends upon its ability to take some from its environment_____?

A. Chemicals

B. Hydrocarbons

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C. Organic molecules

D. Inorganic molecules

446. In humans the number of tetrads formed during mitosis is_____?

A. 23

B. 46

C. 0

D. 4

447. Non polar organic molecules are _____ in water?

A. Soluble

B. Insoluble

C. Partially soluble

D. Depends upon condition

448. Interconversion of carbohydrates proteins and lipids in living cells are an example of_____?

A. Coordinated catabolic activities

B. Coordinated anabolic activities

C. Both A and B

D. Any one

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- 449.** Which one of the following is correct sequence of stages of prophase 1 of meiosis
- A. Diakinesis diplotene pachytene leptotene zygotene
 - B. Zygotene leptotene pachytene diplotene diakinesis
 - C. Leptotene zygotene pachytene diplotene diakinesis
 - D. Pachytene leptotene diplotene zygotene diakinesis
- 450.** Which one of the following syndrome is the result of meiotic non dysjunction?
- A. Klinefelters syndrome
 - B. Turners syndrome
 - C. Downs syndrome
 - D. All of these
- 451.** Which one of the following stage preceeds mitosis during cell cycle?
- A. G1 phase
 - B. S phase

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C. G2 phase

D. M phase

452. Most of the cellular secretions are _____ in nature?

A. Glycolipids

B. Glycoproteins

C. Nucleohistones

D. Proteins

453. The red green color blindness is sex linked recessive condition in man. A father with normal vision and a color blind mother would expect to produce.

A. Color blind sons and daughter with normal vision

B. Sons with normal vision and color blind daughters

C. Color blind sons colour blind daughters and daughters with normal vision

D. Sons with normal vision colour blind daughter and daughters with normal vision

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454. Genes will not be found in gene pairs in the _____?

- A. Muscle cell of worm
- B. Uterine cells of dog
- C. Sperm cells of frog
- D. Guard cells of leaf

455. rRNA constitutes _____% of the total cellular RNA?

- A. 3-4 %
- B. 10-20%
- C. 80%
- D. 90%

456. A genome is _____?

- A. Appearance of an individual
- B. Genetic basis of few characters
- C. Full set of genes of an individual
- D. All of these

457. Which conjugated molecules play important role in gene expression _____?

- A. Glycolipids
- B. Glycoproteins

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C. Nucleohistones

D. None of these

458. There are mainly _____ types of tRNA?

A. 170

B. 20

C. 25

D. 15

459. The disease in which transmembrane carrier for the chloride ion is not produced is _____?

A. Hyperchloesterolemia

B. Cystic fibrosis

C. Severe combined immunodeficiency syndrome

D. AIDS

460. The one which is a weed killer is _____?

A. IAA

B. NAA

C. 2 4-D

D. GA

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- 461.** Five kingdom classification was proposed by_____?
- A. Carlous Linnaeus
 - B. E-Chatton
 - C. Robert Whittaker**
 - D. Lynn Margulis and Karlene Schwartz
- 462.** Organisms of which of the following kingdom have absorptive mode of nutrition_____?
- A. Prokaryotae
 - B. Protoctista
 - C. Animalia
 - D. Fungi**
- 463.** Which of the Euglenas (a Protoctista) character resembles that of animals_____?
- A. They can move
 - B. They lack cell wall
 - C. They do not have chlorophyll
 - D. Both a and b**
- 464.** The one which can break open a plasmid ring is_____?

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- A. Ligase enzyme
- B. Primase enzyme
- C. Restriction endonuclease
- D. ATP-ase enzyme

465. According to Lamarch evolution occurred as the result of_____?

- A. Natural selection
- B. The theory of recapitulation
- C. Inheritance of acquired characters
- D. Over production

466. Allium cepa is the scientific name of_____?

- A. Onion
- B. Amaltas
- C. Potato
- D. Tomato

467. Which of the following category is most general with its members lest resembling with each other than the other categories_____?

- A. Species
- B. Genus

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C. Family

D. Order

468. The first eukarotes appeared about _____ years ago?

A. 1.5 billion

B. 2.5 billion

C. 3.5 billion

D. 4.5 billion

469. Those organisms which can prepare their own food from simple inorganic material and can store energy are called _____?

A. Autotrophs

B. Heterotrophs

C. Procariotique

D. Eu-cariotique

470. Solanum tuberosum is a scientific name of _____?

A. Onion

B. Amaltas

C. Potato

D. Tomato

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471. The structure which has been formed or modified from gill pouches in humans is_____?

A. Gills

B. Eustachian tube

C. Middle ear

D. Lungs

472. Scurvy and beri – beri are caused by the deficiency of_____?

A. Vitamin B and C

B. Vitamin B and D

C. Vitamin C and B

D. Vitamin A and B

473. The word which E-Chatton suggested for bacteria and blue green algae was_____?

A. Autotrophs

B. Heterotrophs

C. Pro-cariotique

D. Eu-cariotique

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474. The greatest diversity of animals in the lake is found in which one of the following zones?

A. Limmnetic zone

B. Littoral zone

C. Profundal zone

D. None of these

475. So far over _____ number of species of animals are known?

A. million

B. 1 million

C. 1

D. 2 million

476. What is the characteristic feature of consumers?

A. Autotroph

B. Heterotroph

C. Parasite

D. Saprophyte

477. Which of the following organisms have Chitin as a major structural component of their cell wall_____?

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A. Prokaryotae

B. Protocista

C. Plantae

D. Fungi

478. All of the following are involved in nitrification except

A. Nitrobacter

B. Nitrosomonas

C. Rhizohium

D. All of these

479. DNA or RNA of viruses is enclosed in _____ coat?

A. Protein

B. Carbohydrate

C. Lipid

D. DNA

480. In most ecosystems the greatest amount of energy flows through the _____?

A. Secondary consumers

B. Herbivores

C. Carnivores

D. Decomposers

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481. Which of the following relationship is NOT an example of symbiosis?

A. Rhizobium and leguminous plants

B. Marchantia sporophyte and gametophyte

C. Algae and fungi in a lichen

D. Mycorrhizal fungi and tree roots

482. Other name for Kingdom monera is _____?

A. Protoctista

B. Prokaryotae

C. Archae

D. None of these

483. Animals with greatest number of similarities are grouped together in a/an _____?

A. Phylum

B. Family

C. Genus

D. Order

484. Amoeba belongs to which kingdom _____?

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A. Prokaryotae

B. Plantae

C. Monera

D. Protista

485. Competition between species will be greatest if they attempt to occupy the same_____?

A. Ecosystem

B. Community

C. Habitat

D. Niche

486. The word virus is derived from Latin word venome meaning_____?

A. Sweet fluid

B. Sore Fluid

C. Poisonous Fluid

D. Salty Fluid

487. The one which is present in all aerobic species is _____?

A. Cytochrome c

B. Cytochrome a

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C. Cytochrome a₃

D. Cytochrome b

488. 10 nm

B. 20 nm

C. 30 nm

D. 40 nm

489. What percentage of light reaching the earth is used in photosynthesis?

A. 25%

B. 10%

C. 5%

D. 1%

490. Viruses are _____ smaller than bacteria?

A. 10 – 100 times

B. 10 – 1000 times

C. 100 – 1000 times

D. 1000 – 10000 times

491. Kangaroo rat most probably would be found in_____?

A. Tropical rain forest

B. Tundra

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C. Grass land

D. Desert

492. Vaccine Was discovered by_____?

A. Louis Pasteur

B. Edward Jennar

C. Ivanowski

D. Stanely

493. The name Bacteriophage was coined by_____?

A. Charles Chamberland

B. Ivanowski

C. Twort

D. D Herelle

494. Protein subunits of capsid is called the capsomeres is a characteristic of each virus. Their number in Herpes virus is_____?

A. 100

B. 152

C. 162

D. 172

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- 495.** Which of the statement about viruses is incorrect_____?
- A. We can not grow them in laboratories on artificial medias
 - B. They are obligate intracellular parasite.
 - C. They can synthesize their nucleic acid
 - D. They are resistant to most of antibiotic treatment
- 496.** A virion is_____?
- A. Virus
 - B. Viral protein
 - C. Viral lysozyme
 - D. Viral gene
- 497.** For which of the following no preventive vaccine is available?
- A. HAV
 - B. HBV

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C. HCV

D. HEV

498. Which one of the following specially result in chronic liver disease leading to hepatic failure:

A. HAV

B. HBV

C. HCV

D. HEV

499. Protein coat the capsid of adenovirus is_____?

A. Surrounded by genome

B. Surrounding genome

C. Surrounding the envelope

D. Both B and C

500. Mode of transmission of hepatitis A is_____?

A. Serum

B. Faeco-oral

C. Sexual contact

D. All of these

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- 501.** Attachment of the bacteriophage with the receptor site on the bacterial cell wall involves_____?
- A. Strong covalent bond between virion and the receptor site.
 - B. Weak chemical union between them
 - C. Both A and B depending upon the phage
 - D. None of these
- 502.** Which of the following statement about AIDS is incorrect:
- A. is a host specific disease
 - B. An infected mother cannot pass the virus to her baby.
 - C. Results in enlargement of lymph nodes
 - D. Can be prevented.
- 503.** Bacteriophage that infect E. coli are called_____?
- A. M type
 - B. N type

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C. T type

D. S type

504. Complex symptoms like severe pneumonia vascular tumor sudden weight loss swollen lymph nodes and immune deficiency are features of:

505. 0

A. Polio

B. Hepatitis

C. AIDS

D. HIV

506. An isolated virus is not considered living since it _____?

A. Separates in to two inner parts

B. Can not metabolize

C. Rapidly loses its Genome chemical inert

D. Is coated with an air tight shield

507. Which of the following is the smallest known virus:

A. Hepatitis virus

B. Retrovirus

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C. Polio virus

D. Pox virus

508. The agent of controversial nature causing mad cow infection is_____?

A. Bacteria

B. Cowpox Virus

C. Adenovirus

D. Prion

509. Which of the following virus has special affiliations with the tumor production:

A. Hepatitis virus

B. Retrovirus

C. Polio virus

D. Pox virus

510. Which of the following is incorrect for the lysogenic cycle in life cycle of bacteriophage_____?

A. Phage when gets incorporated with the bacterial chromosome is called prophage

B. The bacterium continues to live and

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reproduce normally

C. Lysogenic bacteria may get infected by the related phage

D. The cycle may convert into lytic type resulting from environmental exposure

511. An enzyme which can convert single stranded RNA into double stranded viral DNA is called_____?

A. DNAase

B. RNAase

C. DNA polymerase

D. Reverse Transcriptase

512. In lysogenic cycle the process of separation of phage DNA from the hosts chromosome and initiation of lytic cycle is called_____?

A. Lysis

B. Lysogeny

C. Induction

D. Adsorption

513. Which of the following disease results in Paralysis due to viral attack on C.N.S:

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- A. Measles
- B. Herpes simplex
- C. Hepatitis
- D. Polio

514. In life cycle of bacteriophage which step occur after attachment of prophage with the receptor site of the bacterial cell wall_____?

- A. Absorption
- B. Multiplication
- C. Lysogeny
- D. Penetration

515. Tobacco mosaic virus is_____?

- A. Spherical
- B. Rod Shaped
- C. Tadpole like
- D. Hexagonal

516. In the Lysogenic cycle the DNA of the bacteriophage_____?

- A. Joins the bacterial chromosomes
- B. Attaches to the inner surface of the host membrane

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C. Is immediately degraded when enters the host

D. Goes directly to host ribosomes for translation

517. Which of the following is an RNA virus:

A. Influenza virus

B. Herpes virus

C. HBV

D. Pox virus

518. Temperate phage may exist as _____?

A. Prophage

B. Capsid

C. Viron

D. Retrovirus

519. In the lytic cycle of bacteriophage the host DNA is _____?

A. Replicated

B. Turn off by the protein coat.

C. Digested into its nucleotides

D. Turned on by the removal of the protein coat

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520. Pepsinogen is produced from_____?

- A. Mucous cells
- B. Parietal cells
- C. Zymogen cells
- D. All of these

521. Carbohydrates, fats & proteins are essential for_____?

- A. Metabolic processes of an organism
- B. Providing energy
- C. Formation of structures
- D. All of these

522. Dipeptides into amino acids are converted through_____?

- A. Amino peptidase
- B. Erypsin
- C. Pepsin
- D. Trypsin

523. Magnesium is present in which of the following_____?

- A. Cytochromes
- B. ATP

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C. Chlorophyll

D. Haemoglobin

524. Deficiency of which of the following causes chlorosis_____?

A. Nitrogen

B. Magnesium

C. Iron

D. Both A and B

525. Mastication is carried out by_____?

A. **Teeth**

B. Tongue

C. Smooth muscles

D. All of these

526. Deficiency of K^+ causes_____?

A. Stunted growth & strong chlorosis

B. No electron transport chains

C. Premature death of leaves

D. Stunted growth of roots

527. Masses of dilated tortuous veins in the anorectal mucosa are known as_____?

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- A. Bulimia
- B. Ulcer
- C. Adipose tissue
- D. Hemorrhoids

528. Puccinia is a parasitic_____?

- A. Plant
- B. Fungus
- C. Animal
- D. Algae

529. An illness which largely affects girls usually just after the onset of puberty.

- A. Bulimia nervosa
- B. Obesity
- C. Anorexia nervosa
- D. None of these

530. Autotrophic organisms can exist in an exclusively _____ environment?

- A. Organic
- B. Inorganic
- C. Wet
- D. Terrestrial

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531. Loss of appetite due to the fear of becoming obese is _____?

A. Anorexia nervosa

B. Bulimia nervosa

C. Piles

D. Dyspepsia

532. Strong chlorosis is due to the deficiency of _____ in plants?

A. Magnesium

B. Nitrogen

C. Potassium

D. Phosphorus

533. Stunted growth of roots is due to the deficiency of _____ in plants?

A. Potassium

B. Magnesium

C. Phosphorus

D. Iron.

534. The liquid that escapes during defrosting frozen meat contains _____ bacteria?

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A. Campylobacter

B. Nitrobacter

C. Azobacter

D. Salmonella

535. One of the commonest cause of food poisoning are the toxins produced by_____?

A. Azobacter

B. Nitrosomonas

C. Campylobacter

D. Nitrobacter

536. Puccinia commonly destroys_____?

A. Corn

B. Tomato

C. Dodder

D. Wheat

537. Nodules on roots of leguminous plants have _____ bacteria?

A. Anaerobic

B. Nitrogen fixing

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C. Nitrifying

D. Ammonifying

538. Earthworm is an example of _____ feeder?

A. Detritus

B. Fluid

C. Macrophageus

D. Filter

539. All of the insectivorous plants are true _____?

A. Heterotrophs

B. Autotrophes

C. Carnivores

D. Saprotrophs

540. Of the following, which one has more variety of nutrition _____?

A. Animals

B. Bacteria

C. Plants

D. Fungi

541. Incomplete or imperfect digestion is known as _____?

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A. Obesity

B. Dyspepsia

C. Anorexia nervosa

D. Bulimia nervosa

542. The leaf is bilobed with midrib between them. The plant is_____?

A. Saraccnia

B. Dionaea

C. Pitcher plant

D. None of these

543. Anus is surrounded by_____ types of muscles?

A. 2

B. 3

C. 1

D. 4

544. Of the following, which one is missing in herbivores_____?

A. Premolars

B. Canines

C. Incisors

D. Molars.

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545. Certain types of whales are also _____ feeder?

- A. Fluid
- B. Macrophagous
- C. Filter**
- D. None of these

546. _____ is about 2.4 meter in length and comprising about two fifth of the small intestine?

- A. Duodenum
- B. Jejunum**
- C. Ileum
- D. Caecum

547. Hydra is an example of _____ feeder?

- A. Fluid
- B. Macrophagous**
- C. Fluid
- D. All of these

548. Hepatic and Pancreatic secretions are also stimulated by a hormone produced

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by the intestinal mucosa. The hormone is _____?

- A. Creatin
- B. Gastrin
- C. Secretin
- D. Pepsin

549. Parasites capable of living independently of its host at times is called as _____ parasite?

- A. Obligate
- B. Strict
- C. Facultative
- D. Endoparasite

550. A painful burning sensation produced in the chest cavity usually associated with the back flush of acidic chyme into the esophagus is _____?

- A. Pyrolysis
- B. Pyrosis
- C. Peristalsis
- D. Dyspepsia

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551. In planaria, numerous small branches which end blindly are called as _____?

A. Digestive tract

B. Intestinal caeca

C. Hepatic caeca

D. Both B & C

552. Midgut in cockroach is a short narrow tube called _____?

A. Hepatic caeca

B. Gizzard

C. Stomach

D. Rectum

553. Hunger contractions are _____ contractions?

A. Antiperistalsis

B. Peristalsis

C. Voluntary

D. None of these

554. The partly digested food is stored in _____ in cockroach?

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A. Gizzard

B. Crop

C. Hepatic caeca

D. Rectum

555. How many species of fungi are known till now?

A. 10000

B. 100000

C. 10000000

D. 1000

556. Which of the following group represent pathological fungi_____?

A. Mushrooms morels and truffles

B. Rusts smuts and molds

C. Penicillium

D. All of these

557. Death cap/death angel (Amanita) and Jack O Lantern mushroom are examples of_____?

A. Edible mushrooms

B. Poisonous mushrooms

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C. Both of these

D. None of these

558. Which one of the following is different from all the rest regarding the number of cells in its body_____?

A. Rusts

B. Mushrooms

C. Molds

D. Yeasts

559. Fungi which get their food directly from dead organic matter are called_____?

A. Parasitic fungi

B. Predators

C. Mutualists

D. Decomposers

560. How many species of mushrooms are edible?

A. 100

B. 200

C. 3000

D. 4000

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561. Root like structure in saprotrophic fungi are called_____?

- A. Rhizodis
- B. Haustoria
- C. Hyphae
- D. Constricting rings

562. Penicillium reproduce via_____?

- A. Spores
- B. Conidia
- C. Budding
- D. Fragmentation

563. Those fungi which can grow only on their living host and cannot be grown on available defined growth culture medium e.g. various mildews and most rust species are called_____?

- A. Parasitic fungi
- B. Obligate parasitic fungi
- C. Facultative parasitic fungi
- D. All of these

564. Mode of nutrition in penecillium is_____?

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A. Saprotophs

B. Parasitic

C. Predators

D. Mutualistics

565. Oyster mushroom is an example of predator fungi which attack on_____?

A. Pin warms

B. Tape worms

C. Round worms

D. Platehelminthes

566. All such fungi in which sexual phase has not been observed are present in_____?

A. Zygomycota

B. Ascomycota

C. Basidiomycota

D. Deuteromycota

567. Lichen is a symbiotic mutualistic association of fungi with_____?

A. Autotrophs

B. Roots of vascular plants

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C. Green algae and cyanobacterium

D. Leguminous plants

568. Foliose lichen are_____?

A. Stem like

B. Branching

C. Leaf like

D. Crust like

569. How many species of ascomycota occur in lichen symbiotic association?

A. 30%

B. 40%

C. 50%

D. 60%

570. An association in which fungal hyphae penetrate the outer cells of the plant root forming coils swellings and minute branches and also extend out into surrounding soil is called_____?

A. Mycorrizael association

B. Endomycorrhizae

C. Ectomycorrhizae

D. Lichen

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571. Which one of the following is the largest group of fungi?

A. Zygomycota

B. Ascomycota

C. Basidiomycota

D. Deuteromycota

572. The Kingdom of recyclers is known as kingdom_____?

A. Algae

B. Bacteria

C. Fungi

D. Embryophata

573. According to two kingdom classification fungi were placed in kingdom_____?

A. Plantae

B. Animalia

C. Protista

D. Fungi

574. At which stage in the life cycle of Rhizopus meiosis takes place?

A. Formation of sporangiophore via germination of zygospore.

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B. Formation of spores in sporangia

C. Fusion of two hyphae

D. Formation of Zygote by fusion of gametangia.

575. Ecological role of fungi as decomposers is only paralleled by_____?

A. Cyanobacteria

B. Blue green algae

C. Bacteria

D. Virus

576. Which of the following is called black bread mold?

A. Pilobolus

B. Penicillium

C. Neurospora

D. Rhizopus

577. Coenocytic hyphae are also known as_____?

A. Septate

B. Perforated hyphae

C. Aseptate

D. Uninucleate hyphae

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- 578.** In which of the following example of fungi dikaryotic hyphae exist for long period?
- 579.** 0
- A. Deuteromycota
 - B. Basidiomycota**
 - C. Zygomycota
 - D. All of these
- 580.** Unicellular fungi which is non-hyphal is_____?
- A. Mushroom
 - B. Yeast**
 - C. Penicillium
 - D. Mold
- 581.** Parasitic fungi absorb nutrients directly from the living host cytoplasm with the help of special hyphal tips called_____?
- A. Mildew
 - B. Constricting ring
 - C. Haustoria**
 - D. All of these

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- 582.** By which of the following mechanism unicellular yeast reproduce?
- A. Sporing
 - B. Conidiation
 - C. Budding**
 - D. Fragmentation
- 583.** Constricting ring around nematode is formed by_____?
- A. Arthrobotrys**
 - B. Pleurotus ostreatus
 - C. Mildews
 - D. All of these
- 584.** Simple breaking of mycelium resulting in formation of a new mycelium from each broken segments is called_____?
- A. Sporing
 - B. Conidiation
 - C. Budding
 - D. Fragmentation**
- 585.** Type of lichen which tightly attaches to rocks is_____?

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- A. Parmelia
- B. Fruticose
- C. Foliose
- D. Crustose

586. Which of the following statement is incorrect about asexual reproduction by spores in fungi?

- A. Spores are haploid structures
- B. They are dispersed via wind water and insects
- C. On falling to a suitable place they germinate
- D. These are produced through fruiting bodies like ascocarps and basidiocarps.

587. Mycorrhizae are found in about _____ vascular plants?

- A. 90%
- B. 95%
- C. 98%
- D. 96%

588. Spores in sporangia are produced by process?

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A. Sexual

B. Asexual

C. Both of these

D. None of these

589. Fungi can tolerate pH from_____?

A. 3-7

B. 2-6

C. 2-9

D. 3-6

590. Which of the following is responsible for Irish potato famine?

A. Dinoflagellates

B. Kleps

C. Physarum polycephalum

D. Phytophthora infestans

591. Which of the following statement about Kingdom Protista is incorrect_____?

A. Their members have characteristics which separate them from other kingdoms

B. They only include unicellular aquatic

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eukaryotic organisms

C. They do not develop from Blastula or embryo

D. They contain ancestors for fungi plants & animals

592. Spores produced by slime molds are_____?

A. **Haploid**

B. Diploid

C. Triploid

D. None of these

593. Who first separated bacteria from other protists as a group_____?

A. John Hogg

B. Ernst Haeckel

C. Margulis and Schwartz

D. Herbert Copeland

594. In slime molds spores develop into_____?

A. Swarm cells

B. Biflagellated cells

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C. Amoeboid reproductive cells

D. All of these

595. Which of the protozoa has a striking resemblance to collar cells in sponges_____?

A. Zooflagellates

B. Choanflagellates

C. Trypanosomoa

D. Trichonymphas

596. Of the following which one is not the characteristic of green algae?

A. Some green algae possess cell wall with cellulose

B. They are generally accepted as the ancestors of green plants

C. Chlorella is unicellular non-motile green algae

D. None of these

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- 597.** Radiolarians belong to which of the following protozoal group_____?
- A. Zooflagellates
 - B. Actinopods**
 - C. Foraminifera
 - D. Apicomplexans
- 598.** In chlorophytes the main energy stores are_____?
- A. Cellulose
 - B. Starch**
 - C. Glycogen
 - D. All of these
- 599.** Which of the following statement about eiliates is incorrect_____?
- A. Contain mainly unicellular organisms.
 - B. Their contractile vacuule is respobsible for water regulation.
 - C. They are even capable of sexual reproduction.
 - D. Diploid nucleus being smaller is**

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responsible for cells metabolism and growth while polyploidy nucleus functions in sexual process.

600. Examples of Rhodophytes are_____?

- A. Chondrus
- B. Polysiphonia
- C. Both of these
- D. Pinnularia

601. Of the following which one is not the characteristic of dinoflagellates?

- A. Most of them are unicellular
- B. They have blooms
- C. Their cells are often covered with shells of interlocking cellulose plates impregnated with calcium
- D. None of these

602. Lime stone deposits are formed from_____?

- A. Zooflagellates
- B. Foraminferans
- C. Aetinopods
- D. Apicomplexans

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- 603.** The most important group of producers in marine ecosystem is of_____?
- A. **Diatoms**
 - B. Euglenoids
 - C. Dinoflagellates
 - D. Brown algae
- 604.** Plasmodium belongs to_____?
- A. Ciliates
 - B. Apicomplexans**
 - C. Actinopods
 - D. Foraminiferans
- 605.** Most dinoflagellates are_____?
- A. **Unicellular**
 - B. Multicellular
 - C. Both of these
 - D. Zooflagellates
- 606.** Kingdom protista includes_____phyla?
- A. **27**
 - B. 28
 - C. 26
 - D. 29

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- 607.** All phostosynthetic euglenoids lose their chlorophyll when grown in dark and obtain their nutrients heterotrophically this statement is_____?
- A. True
 - B. False**
 - C. May be true may be false
 - D. Unpredictable
- 608.** Stentor is a/an_____?
- A. Ciliate**
 - B. Foraniniferan
 - C. Actinopods
 - D. Apicomplexan
- 609.** Based on molecular data euglenoids are thought to be closely related to_____?
- A. Dinoflagellates
 - B. Zooflagellates**
 - C. Protozoans
 - D. Algae

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610. Complex specialized flagellates living symbiotically in the gut of termites are_____?

A. **Trichonymphas**

B. Trypanosoma

C. Euglena

D. Radiolarians

611. Golden algae are also known as_____?

A. **Chrysophyta**

B. Phaeophyta

C. Pyrrophyta

D. Rhodophyta

612. The definite shape to ciliates is given by_____?

A. **Pellicle**

B. Penicle

C. Calcium

D. Cell wall

613. Brown algae are also known as_____?

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A. **Phaeophyta**

B. Rhodophyta

C. Pyrrophyta

D. Chrysophyta

614. Chalk is gradually formed of dead_____?

A. Actinopods

B. Foraminiferans

C. Apicomplexans

D. Radiolarians

615. The only group of algae having no flagellated motile cells at any stage is_____?

A. Chrysophyta

B. Phaeophyta

C. Pyrrophyta

D. Rhodophyta

616. Of the following which one has glassy shells_____?

A. **Radiolarians**

B. Forams

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- C. Both of these
- D. None of these

617. Most of the photosynthesis on earth is carried by_____?

- A. Kelps
- B. Gymnosperms
- C. Angiosperms
- D. Algae

618. Which of the following statement is incorrect about algae_____?

- A. Their zygote unlike plants is protected by parental tissue
- B. Their classification is based on pigment composition
- C. Most of them have different morphological forms in-different stages of their life cycle
- D. Almost all of them are aquatic

619. In which of the following pigments major energy reserves and cell wall are like plants?

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A. Rhodophyta

B. Chlorophyta

C. Phaeophyta

D. Chrysophyta

620. The word Archaeobacteria (a division of bacteria) derived from Greek means_____?

A. True bacteria

B. False bacteria

C. Recent bacteria

D. Ancient bacteria

621. Who coined the term Animalcules for microorganisms like Bacteria and protozoa_____?

A. Robert Koch

B. Louis Pasteur

C. Alexander Fleming

D. Leeuwenhoek

622. Who discovered the bacteria causing tuberculosis and also developed various techniques of media preparation and

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maintenance of pure culture_____?

- A. Robert Koch
- B. Louis Pasteur
- C. Alexander Fleming
- D. Leeuwenhoek

629. Which of the following structure is not present in all the bacteria_____?

- A. Cell membrane
- B. Chromatin bodies
- C. Ribosomes
- D. Capsule

630. The size of Spirochete is_____?

- A. 0.1 -600 μm
- B. 100-200 nm
- C. 500 μm
- D. 0.75-1.25 μm

631. E. coli and example of entrobacteriace is important for causing diarrheal diseases its size is_____?

- A. 0.1-600 μm
- B. 100-200 nm

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C. 1.1-1.5 μm (width) 2.0-6.0 μm
(length)

D. 0.75-1.25 μm

632. In bacterial categories the bacteria smaller in number are_____?

A. Gram-ive bacteria

B. Eubacteria

C. Ancient bacteria

D. Gram +ive bacteria

633. Germ theory of disease has_____postulates?

A. 3

B. 5

C. 4

D. 6

634. Some bacteria ranging occasionally a size of 5 μm in length are_____?

A. Escherichia coli

B. Spirochetes

C. Mycoplasma

D. Epulopiscium

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635. Coccobacillus has a shape similar to _____?

A. Diplobacillus

B. Sarcina

C. Egg

D. None of these

636. The first bacterium isolated was _____?

A. Coccus

B. Bacillus

C. Vibrio

D. Spirochete

637. Which of the following bacteria are thick rigid and spiral _____?

A. Vibrio

B. Spirillum

C. Spirochete

D. Coccus

638. A group of 8 cocci is called _____?

A. Diplococci

B. Octococci

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C. Tetrad

D. Sarcina

639. Approximately ____ species of bacteria are known to cause diseases in humans.

A. 100

B. 200

C. 300

D. 400

640. Cyanobacteria reproduce by _____?

A. Binary fission

B. Mitosis

C. Meiosis

D. Conjugation

641. Which of the following help cyanobacteria to locomote?

A. Flagella

B. Gas vesicles

C. Both of these

D. None of these

642. Cyanobacteria have _____ cell wall?

A. Gram +ve.

B. Gram – ve.

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C. Acid fast

D. Cellulose rich

643. Who developed the vaccine against anthrax?

A. Louis Pasteur

B. Edward Jennar

C. Leuvenhoek

D. Alexander Fleming

644. Chemical substances used on living tissues that inhibit the growth of micro organism are called_____?

A. Antiseptics

B. Disinfectants

C. Antibiotics

D. Vaccines

645. Rapid growth at exponential ration occurs in which phase of bacterial growth:

A. Lag phase

B. Log phase

C. Stationary phase

D. Death / decline phase

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646. Sex pill is formed in which of the following processes?

- A. Binary fission
- B. Mitosis
- C. Sexual reproduction
- D. Conjugation**

647. Spirochete is an example of _____?

- A. Aerobic bacteria
- B. Anaerobic bacteria**
- C. Facultative bacteria
- D. Microaerophilic

648. E. coli and example of _____?

- A. Aerobic bacteria
- B. Anaerobic bacteria
- C. Facultative bacteria**
- D. Microaerophilic

649. Nitrifying bacteria are the examples of _____?

- A. Hetrotrophic bacteria
- B. Chemosynthetic bacteria**
- C. Saprophytic bacteria
- D. Parasitic bacteria

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- 650.** Those bacteria which are fully dependent upon their host for nutrition are called_____?
- A. Heterotrophic bacteria
 - B. Chemosynthetic bacteria
 - C. Saprophytic bacteria
 - D. Parasitic bacteria**
- 651.** Purple non-sulphur bacteria is an example of_____?
- A. Heterotrophic bacteria
 - B. Chemosynthetic bacteria
 - C. Photosynthetic bacteria**
 - D. Saprotrophic bacteria
- 652.** Example of bacteria requiring low concentration of oxygen is_____?
- A. Campylobacter**
 - B. Spirocheta
 - C. E-coli
 - D. Pseudomonas
- 653.** The common waste material in bacteria is_____?

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A. Glycogen

B. Lactic acid

C. Ammonia

D. Urea

654. Which of the following contains genes for drug and disease resistance in bacteria?

A. Nucleotide

B. Plasmid

C. Mesosome

D. Ribosome

655. Which of the following bacteria do not have flagella commonly_____?

A. Cocci

B. Bacilli

C. Streptobacilli

D. Vibrio

656. A bacterium with tuft of flagella at both poles is called_____?

A. Lophotrichus

B. Monotrichous

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C. Peritrichous

D. Amphitrichous

657. Flagella originate from_____?

A. Cell membrane

B. Cell wall

C. Capsule

D. Basal body

658. Which of the following structure provides greater pathogenicity to the bacteria_____?

A. Capsule

B. Slime

C. Cell Wall

D. Cell membrane

659. Which of the following structure primarily helps in attachment of bacteria on various surfaces_____?

A. Flagella

B. Pili

C. Both of these

D. None of these

660. Cell wall is absent in_____?

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- A. Cocci
- B. Bacilli
- C. Mycobacterium
- D. Mycoplasma

661. Cell wall of Archaeobacteria does not contain_____?

- A. Peptidoglycan
- B. Proteins
- C. Glycoproteins
- D. Polysaccharides

662. Gram positive bacteria appear_____?

- A. Purple
- B. Red
- C. Pink
- D. Blue

663. Extremely long molecule of DNA that is tightly folded to fit inside the cell component is called_____?

- A. Nucleus
- B. Chromosome

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C. Chromatid

D. Chromatin body

664. All of the following are coelomates except:_____?

A. Deuterostomes

B. Proterostomes

C. Hemichordates

D. Aschelminthes

665. The radial symmetry is found in the animals of_____?

A. Protozoa

B. Porifera

C. Cnidaria

D. All of these

666. Both radial and bilateral symmetry is found in the phylum_____?

A. Protozoa

B. Porifera

C. Echinodermata

D. None of these

667. Of the following which one is not the characteristic of triploblasts?

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A. All of them have blood vascular system

B. They may be coelomate pseudocoelomate or acoelomate

C. They are included in grade bilaterian

D. All of them have digestive system

668. The animals in which coelom is formed due to splitting of mesocerm are known as _____?

A. Pseudocoelous

B. Schizocoelous

C. Enterocoelous

D. Emphicoelous

669. In some cases the blastomere can produce complete embryo the cleavage will be _____?

A. Spiral and determinate

B. Radial and indeterminate

C. Spiral and indeterminate

D. Radial and determinate

670. Of the following which one is non-cellular in most cases in animals?

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A. Mesenchyme

B. Sclerenchyma

C. Chlorenchyma

D. Mesoderm

671. Aquatic arthropods respire through_____?

A. Spiracles

B. Gills

C. Book lungs

D. Both b and c

672. Circulatory system is open type in all of the following except:_____?

A. Arthropoda

B. Gastropoda

C. Pelecypoda

D. Cephalopoda

673. Shell of egg is leathery in appearance in_____?

A. Amphibians

B. Reptiles

C. Birds

D. Prototherians

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674. Aschelminthes is also known as _____?

A. Protozoans

B. Eumatazoa

C. Nematodes

D. Protoctist ancestors

675. The name animal is derived from the word _____?

A. Anima

B. Anemia

C. Aname

D. All of these

676. All the animals of the grade radiata are _____?

A. Diploblastic

B. Triploblastic

C. Both

D. Unicellular

677. The fate of each blastomere is foretold. The cleavage will be as _____?

A. Spiral and indeterminate

B. Radial and indeterminate

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C. Radial and indeterminate

D. Spiral and determinate

678. The system well developed in the acoelomate is_____?

A. Excretory system

B. Nervous system

C. Transport system

D. All of these

679. In acoelomates gut is _____ in origin.

A. Ectodermal

B. Endodermal

C. Mesodermal

D. None of these

680. Venus flower basket is also known as_____?

A. Sycon

B. Euplectella

C. Leucosolenia

D. Spongilla

681. The internal buds are known as_____?

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- A. Spicules
- B. Choanocytes
- C. Gemmules

D. None of these

682. The skeleton of the sponges is in the form of variously shaped needle like structures called_____?

- A. Stripules
- B. Spicules

C. Brails
D. Spines

683. Gut in pseudocoelomates is made from_____?

- A. Ectoderm
- B. Mesoderm

C. Endoderm
D. All of these

684. Sperms are _____ in origin.

- A. Ectodermal
- B. Mesodermal

C. Endodermal
D. None of these

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685. Inner layers of the sponges are made up of _____?

- A. Pinacocytes
- B. Choanoderm
- C. Choanocytes
- D. Pinacoderm

686. Of the following which one is not included in Proterostomes?

- A. Arthropods
- B. Hemichordates
- C. Annelids
- D. Molluses

687. Coelom that develops from the archenteron as outpouching is _____?

- A. Pseudocoelom
- B. Enterocoelom
- C. Schizocoelom
- D. None of these

688. Of the following which one is not found in series proterostomia?

- A. Annelida
- B. Arthropoda

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C. Mollusea

D. Echinodermata

689. In most triploblasts after embryonic development the three layers are represented as_____?

A. Separate layers of cells

B. Structures formed from them

C. Structures associated with them

D. Their functions in body

690. The function of coelom is_____?

A. To increase the size of the animals

B. To help in the functioning of reproductive system

C. To provide space for the development of organs and systems

D. None of these

691. A sponge of Antarctica which is more than a meter tall is_____?

A. Scolymastra joubini

B. Euplectella

C. Spongilla

D. Leucoselenia

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692. The sponges in which sperms develop first are included in the category of_____?

- A. Peritandrous
- B. Pertandrous
- C. Protendrous
- D. Protandrous**

693. The skeleton of sponges is made up of_____?

- A. Calcium
- B. Silica
- C. Both of these**
- D. None of these

694. Sperms released in water are carried to the mesenchyme in sponges by_____?

- A. Amoeboid cell**
- B. Stipules
- C. Spicules
- D. Spines

695. The single main opening of the sponge cavity is_____?

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A. **Osculum**

B. Ostia

C. Spongocoel

D. None of these

696. 8% of the food of sponges consists of _____?

A. **Detrital organic particles**

B. Zooplankton and small animals

C. Phytoplanktons

D. all of these

697. In sponges fertilization takes place in _____?

A. Ectoderm

B. Mesenchyme

C. Endoderm

D. Uterus

698. Which of the following are motile zooids in cnidarians?

A. Polyps

B. Medusae

C. Both of these

D. None of these

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699. Mammals became dominant in _____?

- A. Proterozoic era
- B. Mesozoic era
- C. Paleozoic era
- D. Cenozoic era

700. Which of the following fishes contained lungs?

- A. Lamprey
- B. Perch
- C. Plaice
- D. Dipnoi

701. Notochord is present throughout life in _____?

- A. Urochordates
- B. Cephalochordates
- C. Chordates
- D. Vertebrates

702. Body is eel like in _____?

- A. Cyclostomata
- B. Chondrichthyes

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C. Osteichthyes

D. None of these

703. Body is globular in_____?

A. Cake urchin

B. Sea Urchin

C. Sea cucumber

D. Brittle star

704. Second largest phylum of invertebrates is_____?

A. Porifera

B. Arthropoda

C. Mollusca

D. Chordata

705. Main blood vessel of arthropods usually:

A. **Lies on dorsal side**

B. Lies on ventral side

C. Lies on lateral side

D. Is not present

706. _____ are the first group of invertebrates which have developed a closed circulatory system.

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A. Nematods

B. Annelids

C. Arthropods

D. Molluscs

707. Of the following which one is not the characteristic of Kingdom Animalia.

A. All animals are ingestive heterotrophs

B. All animals are eukaryotes

C. All animals develop from the dissimilar gametes i.e. large sperm and small egg.

D. It is largest kingdom.

708. Coelom is lined by_____?

A. Parietal mesoderm

B. Visceral mesoderm

C. Mesoderm

D. Both A & B

709. Porifera range in size from_____?

A. Few millimeter wide to more than one meter tall

B. Few centimeter wide to more than

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one meter tall

C. Few decimeter wide to more than one meter tall

D. One meter wide to more than millimeter tall.

710. Enteron in coelenterates acts as_____?

A. Digestive cavity

B. Body cavity

C. Transporting cavity

D. all of these

711. All of the following coelenterates show alternation of generation except:

A. Hydra

B. Obelia

C. Aurelia

D. None of these

712. Excretory system of platyhlminthes consists of_____?

A. Nephridia

B. Flame cells

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C. Malpighian tubules

D. Nephrons

713. Pseudocoelom develops from_____?

A. Blastopore

B. Plastoquinone

C. Blastocoel

D. Splitting of mesoderm

714. Exoskeleton of coelenterates is made up to_____?

A. **Calcium**

B. Silica

C. Chitin

D. Both A & B

715. All of the following are true for Platyhelminthes except_____?

A. Flatworms

B. Triploblastic

C. Coelomate

D. Bilateral symmetry

716. Nervous system of nematods consists of?

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A. Ventral nerve cord

B. Dorsal nerve cord

C. Lateral nerve cord

D. All of these

717. Polychaeta have_____?

A. Tentacles

B. Palps

C. Eyes

D. All of these

718. _____ are believed to have common origin with annelids.

A. Nematods

B. Arthropods

C. Molluscs

D. None of these

719. Mantle in molluscs is present over_____?

A. Head

B. Ventral muscular foot

C. Dorsal visceral region

D. All of these

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720. Prechordates is another name used for_____?

- A. Echinoderms
- B. Hemichordates**
- C. Vertebrates
- D. Chordates

721. True metamorphosis is not present in_____?

- A. Crustacea
- B. Insecta
- C. Arachnida**
- D. Myriapoda

722. Pin worm is common name used for_____?

- A. Rhabditis
- B. Enterobius vermicularis**
- C. Ancylostoma duodenale
- D. Taenia solium

723. Which system is present in nematodes?

- A. Sac – like digestive system
- B. Tube – like digestive system**

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C. Circulatory system

D. Respiratory system

724. Which of following system is segmentally arranged in annelids?

A. Excretory system

B. Digestive system

C. Circulatory system

D. Nervous system

725. The organs of locomotion in annelids are_____?

A. Muscles

B. Hydrostatic skeleton

C. Parapodia

D. Setae

726. The number of chromosomes in human cell is_____?

A. 48

B. 44

C. 46

D. 26

727. The resolving power of electric microscope is_____?

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A. 0.2 mm

B. 0.2 nm

C. 0.2 m

D. none of these

728. Free living example of Platyhelminthes is _____?

A. Dugesia

B. Fasciola

C. Taenia

D. None of these

729. Pseudocoelom is character of _____?

A. Coelenterates

B. Platyhelminthes

C. Aschelminthes

D. Annelids

730. Which of the following statement about plants is incorrect?

A. All are eukaryotes

B. They are multicellular.

C. Non-motile organisms

D. They Are heterotrophes

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731. Antheridia and archegonia are born on _____ in bryophytes.

A. Sporophyte

B. Gametophyte

C. Both of these

D. None of these

732. Which of the following of bryophytes are the simplest one?

A. Porella

B. Funaria

C. Anthocerus

D. Polytrichum

733. Ferns are included in _____?

A. Psilopsida

B. Lycopsidea

C. Sphenopsida

D. Pteropsida

734. in which cell ribosome are of large size and present either on endoplasmic reticulum or free in cytoplasm?

A. prokaryotic

B. eukaryotic

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C. both

D. all the above

735. mitochondria in heart muscles are nearly_____?

A. 400

B. 375

C. 350

D. 325

736. mitochondria in ear lobe cells are nearly_____?

A. 40

B. 50

C. 55

D. 60

737. four daughter cells are given to rise during the process of_____?

A. **meiosis**

B. mitosis

C. cell division

D. none of these

738. which of the following gives to rise two daughter cell during cell division?

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A. meiosis

B. mitosis

C. both a & b

D. none of these

739. in animals meiosis produces_____?

A. spores

B. gametes

C. both a & b

D. all the above

740. prokaryotic and eukaryotic are two types of_____?

A. cells

B. tissues

C. organs

D. organisms

741. cells are of_____types?

A. 4

B. 3

C. 2

D. 1

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742. Gametophyte of Psilopsida develops a symbiotic association with which of the following_____?

- A. Algae
- B. Bacteria
- C. Protozoa

D. Fungus

743. Which of the following is an example of the living member of Psilopsida_____?

- A. Rhynia
- B. Psilophyton

C. Psilotum

D. Cooksonia

744. In term of spore production Selaginella is characterized by_____?

A. Homosporous

B. Hetrosporous

C. Both depending upon the conditions

D. None of these

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745. Which of the following tracheophytes are also called arthropytes_____?

A. Psilopsids

B. Lycopsids

C. Sphenopsids

D. Prteropsids

746. Equistem is an example of_____?

A. Psilopsida

B. Lycopsida

C. Sphenopsida

D. Prteropsida

747. Bryophytes are called amphibians of plant world because:

A. Bryophytes like amphibian ancestors are one of the most primitive organisms in this world.

B. Bryophytes like amphibian live in damp shady places and close to water body.

C. Amphibians have close relation with

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bryophytes in their habitat.

D. All of these

748. Today the land habitat is dominated by_____?

A. Fungi

B. Gymnosperms

C. Angiosperms

D. Tracheophytes

749. Hornwarts are included in sub-class of _____?

A. Anthoceropsida

B. Bryopsida

C. Hepaticopsida

D. Psilopsida

750. Of the following which one is not the characteristic of the plants included in psilopsida_____?

A. Gametophyte is colourless

B. They have mycorrhizal association

C. Rhizoids bear Rhizome

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D. Aerial branches have veinless outgrowths

751. Horsetails are included in class of _____?

A. **Sphenopeida**

B. Lycopsidea

C. Psilopsida

D. Pteropsida

752. Megaphylls are characteristic for _____?

A. Ferns

B. Seed plants

C. Both of these

D. None of these

753. In bryophytes fertilization takes place in _____?

A. Antheridia

B. Archegonia

C. water

D. Ovule

754. The dichotomously branching system has shape similar to _____?

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A. U

B. R

C. Y

D. Fork

755. Which of the following statement about alternation of generation in bryophytes is incorrect?

A. It involves alternation of morphologically different generations

B. Their gametophyte is independent while sporophyte depends upon gametophyte for nutrition.

C. Both the gametophyte and sporophytes are haploid generations thus can produce haploids gametes to continue the diploid number on fertilization

D. Spore formation occurs through meiosis

756. The space between the overtopped dichotomous branches was occupied by

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a sheet of _____ cells during evolution of megaphyllas?

- A. Sclerenchyma
- B. Chlorenchyma
- C. Parenchyma
- D. Collenchyma

757. Production of two types of spores is known as _____?

- A. Heterospory
- B. Homospory
- C. Heterogamy
- D. Gamospory

758. Antherozoids the male gamete in bryophytes are attracted towards Archegonium i.e. female sex organ by _____?

- A. Phototactic phenomenon
- B. Chemotactic phenomenon
- C. Geotropic phenomenon
- D. Chemotropic movement

759. The zygote formed in liverworts is _____?

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- A. Unicellular
- B. Mulicellular
- C. Multinucleate
- D. None of these

760. Ground pries are also known as_____?

- A. Lycopods
- B. Spike mosses
- C. Both of these
- D. None of these

761. Sporophyte is_____?

- A. Monoploid
- B. Haploid
- C. Diploid
- D. Polyploidy

762. Which of the following plant group first formed true leaves_____?

- A. Psilopsida
- B. Lycopsida
- C. Sphenopsida
- D. Pteropsida

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763. Megaphylls i.e. leaves with divided veins with an expanded lamina is a dharacteristic of _____?

- A. Lycopods
- B. Ferns
- C. Seed plants

D. Both b and c

764. Mosses are included in sub-division of _____?

- A. Anthoceropsida
- B. Hepaticopsida
- C. Bryopsida**
- D. Lycopsida

765. The arrangement of unequal dichotomous branches in one plane during evolution of leaves is called _____?

- A. Overtopping
- B. Fusion
- C. Webbing
- D. Planation**

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766. The simplest of all bryophytes are_____?

- A. Thallophytes
- B. Embryophytes
- C. Mosses
- D. Liverworts

767. Which of the following statement about filicinae a group of tracheophytes is incorrect_____?

- A. They belong to sphenopsida
- B. They are seedless and their leaves are called fronds
- C. They live in shady and moist areas.
- D. They show circinate vernation.

768. Antheridiophore and archegoniophore are found in_____?

- A. Marchantia
- B. Funaria
- C. Both of these
- D. None of these

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769. Due to which property of Adiantum and example of Filicinae is called Maidenhairfern_____?

A. Its short thick branched horizontally growing rhizome

B. Fibrous adventitious roots arise from the lower side of rhizome

C. Shows heteromorphic alternation of generation

D. Stipe (stalk) and rachis of leaf have black smooth and shiny hair like structures

770. Specialized protective coverings around megasporangium which vary in number are called_____?

A. Sporangium

B. Integuments

C. Ovule

D. Pericarp

771. Protonema is_____?

A. Thallus like

B. Algae like

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C. Fungus like

D. Plant like

772. In which group of tracheophytes ovules are born on the exposed surface of megasporophylls_____?

A. Spheospsida

B. Filicineae

C. Gymnosperms

D. Angiosperms

773. Pinus Taxus and Picea belong to_____?

A. Spheospsida

B. Filicineae

C. Gymnosperms

D. Angiosperms

774. Of the following four options which one is most advanced?

A. Anthoceropsida

B. Bryopsida

C. Hepaticopsida

D. None of these

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- 775.** In life cycle of Pinus megaspores produced by megasporangium divide into 4 megaspores by_____?
- A. Mitosis
 - B. Meiosis**
 - C. Both depending upon the conditions
 - D. None of these
- 776.** In Hornworts the band of meristematic tissue is found near_____?
- A. Foot
 - B. Gamete producing region
 - C. Spore producing region
 - D. At junction of A & B**
- 777.** Microspore of a seed plant that contain male gametophyte including the gamete is called_____?
- A. Pollen grain**
 - B. Ovule
 - C. Microgametophyte
 - D. Microsporangium
- 778.** The part of sporophyte which is called sporangium is_____?

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A. Capsule

B. Foot

C. Stalk

D. None of these

779. Monocots are characterized by_____?

A. Number of sepals and petals are 2 or multiple of 2

B. Number of sepals and petals are 3 or multiple of 3

C. Number of sepals and petals are 4 or multiple of 4

D. Number of sepals and petals are 5 or multiple of 5

780. The first cell of the sporophyte generation is_____?

A. Oospore

B. Spore mother cell

C. Spore

D. Gamete

781. Which of the following statement about dicots is incorrect_____?

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A. They have 4 or 5 sepals and petals or their multiple.

B. They have parallel vein pattern on their leaves

C. They are both herbaceous and woody

D. Vascular bundles are ring shaped in their stems.

782. Maize is an example of _____?

A. Monocot

B. Dicot

C. Gymnosperms

D. none of these

783. Stem of Psilophyton an example of psilogsida is differentiated into an underground rhizome and an aerial part both of which are _____ branched

A. Isotomous

B. Dichotomously

C. Trichotomously

D. Multichotomously

784. Which of the following group of tracheophyta has expanded or scale like

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leaves which are always arranged in whorls?

A. Psilopsida

B. Lycopsida

C. Sphenopsida

D. Prteropsida

785. Sporangia of which of the following tracheophytes develop singly on the upper side of sporophylls which may or may not be arranged to form strobili_____?

A. Psilopsida

B. Lycopsida

C. Sphenopsida

D. Prteropsida

786. Which of the following tracheophytes are leafless?

A. Psilopsida

B. Lycopsida

C. Sphenopsida

D. Prteropsida

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- 787.** Chlorosis, i.e., yellowish hue on the leaves results from_____?
- A. Accumulation of toxic waste products in leaves.
 - B. Deficiency of chlorophyll.
 - C. Short supplies of mineral nutrients in the soil.
 - D. All of these**
- 788.** Chemically auxins are_____?
- A. Indole propionic acid.
 - B. Indole carboxylic acid.
 - C. Indole acetaldehyde
 - D. Indole acetic acid.**
- 789.** Gibberellins may be substituted for _____ light, therefore promote flowering in long day plants?
- A. White
 - B. Red**
 - C. Blue
 - D. Green

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790. Which of the following is antagonist to Auxin in terms of promotion of stem growth_____?

A. Gibberellins

B. Cytokinins

C. Absciscic Acid

D. none of these.

791. Absciscic acid promotes flowering in short day plants and inhibits in long day plants, which of the following is antagonistic to absciscic acid in terms of flowering_____?

A. Gibberellins

B. Cytokinins

C. Auxins

D. Ethene.

792. The only promoter of leaf senescence in the following plant hormones is_____?

A. Gibberellins

B. Cytokinins

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C. Auxins

D. Absciscic Acid

793. Which of the following is used in brewing industry to promote malting_____?

A. Gibberellins

B. Cytokinins

C. Auxins

D. Absciscic Acid

794. Which type of the receptors are present in the ear_____?

A. Chemoreceptors

B. Mechanoreceptors

C. Photoreceptors

D. Thermoreceptors

795. Type of sensations carried by nociceptors are_____?

A. Touch.

B. Temperature.

C. Pressure.

D. Pain

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796. Which type of sensory structures carrying the touch sensations are present in papillae extending into ridges of the fingertips_____?

A. Hair end organs

B. Meissner's Corpuscles

C. Pacinian corpuscles

D. None of these

797. Which type of sensory structures carry deep pressure and vibration sensations_____?

A. Hair end organs

B. Meissner's Corpuscles

C. Pacinian corpuscles

D. none of these

798. Chemically auxins are_____?

A. Indole propionic acid.

B. Indole carboxylic acid.

C. Indole acetaldehyde

D. Indole acetic acid.

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799. Gibberellins may be substituted for _____ light, therefore promote flowering in long day plants?

A. White

B. Red

C. Blue

D. Green

800. Which of the following is antagonist to Auxin in terms of promotion of stem growth_____?

A. Gibberellins

B. Cytokinins

C. Absciscic Acid

D. none of these

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801. Absciscic acid promotes flowering in short day plants and inhibits in long day plants, which of the following is antagonistic to absciscic acid in terms of flowering_____?

A. Gibberellins

B. Cytokinins

C. Auxins

D. Ethene.

802. The only promoter of leaf senescence in the following plant hormones is_____?

A. Gibberellins

B. Cytokinins

C. Auxins

D. Absciscic Acid

803. Which of the following is used in brewing industry to promote malting_____?

A. Gibberellins

B. Cytokinins

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C. Auxins

D. Absciscic Acid

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D. None of these

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- 807.** Which type of sensory structures carry deep pressure and vibration sensations_____?
- A. Hair end organs
 - B. Meissner's Corpuscles
 - C. Pacinian corpuscles
 - D. none of these
- 808.** Grave's disease is produced due to_____?
- A. Undersecretion of thyroxin
 - B. Overproduction of thyroxin
 - C. Undersecretion of corticosteroids
 - D. Overproduction of corticosteroids
- 809.** MSH is produced from_____?
- A. Anterior pituitary
 - B. Median pituitary
 - C. Posterior pituitary
 - D. None of these
- 810.** At the induction of action potential opening of Na^+ gate with influx of Na^+ is a _____ processes?

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A. Active transport

B. Passive transport

C. Diffusion

D. none of these

811. Acromegaly is caused due to oversecretion of_____?

A. STH

B. TSH

C. ACTH

D. Thyroxin

812. Insulin and glucagons are _____ in nature.

A. Protein

B. Amino acid derivative

C. Polypeptide

D. Steroid

813. Normal resting membrane potential of a neuron is_____?

A. – 50 mv

B. – 60 mv

C. – 70 mv

D. – 80 mv

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814. Insufficient secretion of iodothyroxine in adults causes _____?

- A. Myxedema
- B. Cretinism
- C. Goiter
- D. Exophthalmic goiter

815. Normal action potential of a neuronal cell is _____?

- A. plus 50 mv
- B. plus 60 mv
- C. plus 70 mv
- D. plus 80 mv

816. Number of pairs of cranial nerves is _____?

- A. 10
- B. 11
- C. 12
- D. 13

817. Na^+ - K^+ ATPase pump is important for _____?

- A. Maintenance of resting potential
- B. Massive out flux of K^+ after

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depolarization

C. Recovery of resting potential

D. Conversion of resting potential into action potential

818. Which of the following has no central nervous system?

A. Hydra

B. Man

C. Planaria

D. Cockroach

819. Maximum speed of nerve impulse transmission is _____?

A. 100 m/sec

B. 110 m/sec

C. 120m/sec

D. 130 m/sec.

820. Which of the following are responsible for the detection of changes in environment?

A. Receptors

B. Neurons

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C. Effectors

D. All of these

821. Any change in the environment of an organism is called_____?

A. Stimulus

B. Variation

C. Response

D. Reaction

822. Co-ordination results in_____?

A. Regulation of body functions

B. Organization of body functions

C. Integration of body functions

D. All of these

823. Which of the followings are effectors_____?

A. Muscles

B. Glands

C. Sensory organs

D. Both 'a' & 'b'

824. Hydra has_____?

A. Brain

B. Nerves

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C. Neuron-cells

D. All of these

825. Co-ordination in man is brought about by_____?

A. Nervous system

B. Endocrine system

C. Both of these

D. none of these.

826. Which of the followings is missing from the nervous system of planaria_____?

A. Ganglia

B. Longitudinal nerves

C. Lateral nerves

D. none of these

827. Which of the following transmits nerve impulse from receptors to central nervous system?

A. Sensory neuron

B. Motor neuron

C. Associative neuron

D. none of these.

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828. In which of the following neurons length of dendrite is greater than axon_____?

- A. Sensory neuron
- B. Motor neuron
- C. Associative neuron
- D. none of these.

829. Which of the following neuron has a single long dendron?

- A. Sensory neuron
- B. Motor neuron
- C. Associative neuron
- D. none of these.

830. Which of the following cytoplasmic extensions carry the message toward the cell body_____?

- A. Dendrites
- B. Axon
- C. Both of these
- D. none of these

831. Microscopic gaps between the neuron endings are called_____?

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A. Transmitters

B. Synapses

C. Pores

D. Nodes

832. What is the function of synapse_____?

A. To allow nerve impulse to move in backward direction

B. To decrease the speed of nerve impulse

C. To stop the nerve impulse

D. To provide cytoplasmic connection between neurons.

833. Under resting membrane potentials:

A. Outer surface of neuron is more positive

B. Inner surface of neuron is more positive

C. Both of these surfaces are equally positive

D. none of these.

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834. Which of the following ions are involved in the initiation of nerve impulse_____?

A. Na⁺

B. K⁺

C. Fe

D. none of these

835. Central nervous system of man consists of_____?

A. Brain

B. Spinal cord

C. Both of these

D. none of these

836. Reflex actions below the neck are under control of_____?

A. Brain

B. Spinal cord

C. Hypothalamus

D. none of these.

837. Which of the following is present inside the vertebral column_____?

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A. Brain

B. Spinal cord

C. Both of these

D. none of these.

838. Which of the following is largest part of brain?

A. Cerebrum

B. Cerebellum

C. Medulla oblongata

D. Thalamus

839. Which of the following is second largest part of the brain_____?

A. Cerebrum

B. Cerebellum

C. Thalamus

D. Hypothalamus

840. Intelligence is under the control of_____?

A. Cerebrum

B. Cerebellum

C. Thalamus

D. Hypothalamus

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841. Which of the following acts as thermoregulator?

- A. Cerebrum
- B. Cerebellum
- C. Thalamus

D. Hypothalamus

842. Which of the following allows precise muscular movements_____?

- A. Cerebrum
- B. Cerebellum**
- C. Thalamus
- D. Hypothalamus

843. It is one of the convulsive disorders of nerves which are characterized by abrupt transient symptoms of motor, sensory, psychic or autonomic nature_____?

- A. Parkinson's disease
- B. Epilepsy**
- C. Alzheimer's disease
- D. Dementia

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844. Value of resting membrane potential is _____?

A. 0.03 V

B. 0.05 V

C. 0.07 V

D. 0.09V

845. Receptors for hearing come under heading of _____?

A. Chemical

B. Mechanical

C. Photo

D. Nociceptors

846. Which of the following feature is not related to neuron?

A. Conduction

B. Regeneration

C. Reflex

D. Movement

847. Which of the following is a chemical link between catabolism and anabolism?

A. AMP

B. ADP

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C. ATP

D. All of these

848. Photosynthesis is process in which _____ compounds of carbon (CO_2) and hydrogen (H_2O) are reduced to carbohydrate like (glucose) using light energy.

A. Organic

B. Energy rich

C. Energy poor

D. Reduced

849. $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{ENERGY}$ represents:_____?

A. Photosynthesis

B. Aerobic respiration

C. Anaerobic respiration

D. Respiration

850. Bacteriochlorophylls does not include_____?

A. Chlorophyll e

B. Chlorophyll d

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C. Chlorophyll a

D. Chlorophyll c

851. At which times there is no net gaseous exchange between leaves and the atmosphere.

A. Day time.

B. Night time.

C. Dawn & Dusk.

D. Mid night.

852. Molecular formula of chlorophyll b is_____?

A. C₅₅ H₁₀ O₄ N₆ Mg

B. C₅₅ H₇₀ O₆ N₅ Mg

C. C₅₅ H₇₁ O₆ N₄ Mg

D. C₅₅ H₇₀ O₆ N₄ Mg

853. Which of the following is a compensation point:

A. Leaves respire and utilize O₂ and release CO₂.

B. Photosynthesis and respiration occur at same rate. So there is not net exchange of gases between atmosphere

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and plants.

C. Rate of photosynthesis increases, so do the O₂ production, with a net release of oxygen coupled with the uptake of CO₂.

D. Rate of respiration becomes more than rate of photosynthesis.

854. Quantitative study of energy relationships in biological systems obeys.

A. Bioenergetics

B. Laws of thermodynamics

C. Laws of thermo chemistry

D. Laws of chemical energetic

855. The organisms able to use sunlight directly as a source of energy are _____?

A. Plants

B. Animals

C. Omnivores

D. Fungi

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856. Carotenoids perform protective function in _____?

A. Animals

B. Plants

C. Both of these

D. None of these

857. Of the following which one is not an energy releasing process?

A. Glycolysis

B. Respiration

C. Photosynthesis

D. Kreb's cycle

858. About _____ % of photosynthesis is carried by terrestrial plants, while rest occurs in ocean, lakes, and ponds?

A. 10%

B. 20%

C. 30%

D. 40%

859. Net yield of H₂O in Photosynthesis is _____?

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- A. 1 molecule
- B. 6 molecules
- C. 3 molecules
- D. 0 molecule

860. The point at which there is no net exchange of gases between leaves and atmosphere is known as_____?

- A. Neutral point
- B. Compensation point
- C. Parallel point
- D. Competitive point

861. Air contains _____ % of CO₂ ?

- A. 0.02-0.03
- B. 0.03-0.04
- C. 0.04-0.05
- D. 0.05-0.06

862. Van neil hypothesis about the production of oxygen during phosynthesis was based on the study and investigations on_____?

- A. Bacteria
- B. Algae

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C. Protenema

D. Cyanobacteria

863. PS I has chlorophyll a molecule which absorbs maximum light of _____ nm ?

A. 600

B. 650

C. 680

D. 700

864. Visible light used in photosynthesis ranges from: _____?

A. 300 – 700 nm in wavelength

B. 350 – 750 nm in wavelength

C. 380 – 750 nm in wavelength

D. 390 – 790 nm in wavelength.

865. The percentage of light absorbed by the leaf is _____?

A. 20%

B. 15%

C. 10%

D. 1%

866. Which of the following light is least absorbed by the plants?

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A. Orange

B. Red

C. Blue

D. Green

867. The first action spectrum was obtained by_____?

A. T.W.Englemam

B. Malleus

C. T.W.Inws

D. W.Stapes

868. Which of the light is mainly absorbed by the plants?

A. Orange

B. Red

C. Green

D. Both A and B

869. First Actions spectrum was obtained by using_____?

A. Algae

B. Fungi

C. Bacteria

D. Spirogyra

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870. Chlorophyll is insoluble in_____?

- A. Carbon tetrachloride
- B. Alcohol
- C. Organic solvents
- D. Water**

871. Of the following, which one causes higher production of food in green plants?

- A. Blue
- B. Orange
- C. Red**
- D. Violet

872. Which of the following statement about the head of a chlorophyll molecule is incorrect?

- A. It is a porphyrin ring or tetrapyrrole ring structure
- B. It is flat, square and light absorbing
- C. Composed of carbon and nitrogen atoms with Magnesium as central metal ion, which is coordinated with nitrogen.
- D. It is hydrophobic**

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873. Photosynthesis carried out by terrestrial plants is _____ of total photosynthesis?

A. 1-2%

B. 5%

C. 10%

D. 20%

874. Molecular formula of chlorophyll 'a' molecule is _____?

A. $C_{55}H_{72}O_5N_4Mg$

B. $C_{55}H_{70}O_6N_4Mg$

C. $C_{50}H_{72}O_6N_4Mg$

D. $C_{55}H_{70}O_5N_4Mg$

875. Stomata cover only _____ of leaf surface?

A. 0.03 – 0.04%

B. 10%

C. 1-2 %

D. 50%

876. Which of the following pigment is Blue-green in colour?

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A. Chlorophyll a

B. Chlorophyll b.

C. Chlorophyll c

D. Chlorophyll d.

877. Reduction in photosynthesis is of _____?

A. O₂

B. CO₂

C. H₂O

D. light energy

878. Light reaction takes place on/in _____?

A. Thylakoid

B. Stroma

C. Chloroplast

D. Grana

879. NADPH₂ provides _____?

A. assimilatory power

B. chemical energy

C. energized electrons

D. All of these

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880. Thylakoids in chloroplasts are stacked into_____?

- A. Grana
- B. Stroma
- C. Nucleus
- D. None of these

881. Of the following, which one light – gathering?

- A. Antenna complex
- B. Reaction centre
- C. Photosystem
- D. None of these

882. In all plants the major sites of phosynthesis are_____?

- A. Leaves respire and utilize O_2 and release CO_2 .
- B. Stems
- C. Roots
- D. Branches

883. Photosystem II has molecules which absorbs maximum light of_____?

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A. 680 nm

B. 100 m

C. 700 nm

D. 670 nm

884. The dense fluid filled region in the chloroplast is_____?

A. Grana

B. Stroma

C. Thylakoid

D. None of these

885. Chlorophylls are found embedded in the _____ membranes?

A. Stroma

B. Grana

C. Thylakoid

D. Intergrana

886. Glycolysis takes place in_____?

A. Nucleus

B. Cytosol

C. Mitochondria.

D. Ribosomes

887. Xanthophylls are _____ pigments

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A. Yellow

B. Red

C. Orange

D. Green

888. Complete breakdown of glucose molecule takes place in which of the following?

A. Alcoholic fermentation

B. Lactic acid fermentation

C. Aerobic respiration

D. All of these

889. Chlorophylls mainly absorb _____ wavelengths?

A. Orange – blue

B. Violet – red

C. Yellow – orange

D. Orange – red.

890. Deficiency of _____ causes yellowing in plants?

A. Magnesium

B. Iron

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C. Chlorine

D. Oxygen

891. In alcoholic fermentation Pyruvic acid is broken down into?

A. Acetaldehyde

B. Methyl alcohol

C. Ethyl alcohol

D. Lactic acid

892. The chlorophyll molecule is embedded in the core of thylakoid membrane which acts as_____?

A. Hydrophilic

B. Hydrophobic

C. Both of these

D. None of these

893. The most important photosynthetic pigment is _____?

A. Chlorophyll a

B. Chlorophyll b

C. Xanthophyll

D. Carotenes

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894. In which of the following component of the body, lactic acid fermentation takes place?

- A. Brain
- B. Heart
- C. Liver

D. Muscles

895. Final acceptor of electrons in respiratory chain is _____?

- A. NADH
- B. Cytochrome a₃
- C. Water

D. Oxygen

896. In Anaerobic respiration only _____ % of the energy present within the chemical bond of glucose is converted into ATP?

- A. 1%
- B. 2%**
- C. 3%
- D. 4%

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897. From one pyruvate passing through
Kreb's cycle, how many NADH are
formed?

A. 1

B. 2

C. 3

D. 4

898. Cellular respiration is essentially a/an
_____ process?

A. Oxidation.

B. Reduction.

C. Redox.

D. None of the above.

899. ATP are consumed during _____?

A. Glycolysis

B. Kreb's cycle

C. Light dependent phase

D. none of these

900. Breaking of terminal phosphate of ATP
releases about _____ Kcal of energy?

A. 6.1

B. 6.3

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C. 7.1

D. 7.3

901. Functional units of lungs are called_____?

A. Alveoli

B. Air sacs

C. Parabronchi

D. None of these

902. Lungs are spongy due to the presence of million of_____?

A. Air sacs

B. Alveoli

C. Bronchioles

D. Parabronchi

903. _____ respiration is directly involved in the production of energy, necessary for all living activities?

A. Organismic

B. Cellular

C. Both of these

D. None of these

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- 904.** Lungs are covered with double layered thin membranous sac called _____?
- A. Disphragm
 - B. Pleura**
 - C. Pericardium
 - D. Rib cage
- 905.** _____ respiration is the process by which cell utilized oxygen and produces CO₂ ?
- A. Cellular**
 - B. Organismic
 - C. Both of these
 - D. None of these
- 906.** During rest the breathing occurs rhythmically at the frequency of _____ times per minute in human?
- A. 16-30
 - B. 15-20**
 - C. 5?10
 - D. 6?12
- 907.** Of the following, which one is better respiratory medium _____?

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A. Air

B. Water

C. Soil

D. None of these

908. The maximum amount of oxygen which normal human blood absorbs and carries at sea level is _____ per 1 ml of blood.

A. 10 ml

B. 20 ml

C. 30 ml

D. 40 ml

909. Oxygen contents per liter of air is _____?

A. 10 ml

B. 100 ml

C. 200 ml

D. 100ml

910. Haemoglobin can be almost completely oxygenated by an oxygen pressure of _____ of mercury.

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A. 10 mm

B. 60 mm

C. 10 cm

D. 100 mm

911. Water is _____ times viscous than air?

A. 50

B. 1000

C. 5000

D. 8000

912. Important factors which affect the capacity of haemoglobin to combine with oxygen is

A. Temperature

B. Carbon dioxide

C. pH

D. All of these

913. There are _____ stomata per square cm of leaf surface in Tobacco plants?

A. 1200

B. 12000

C. 100,000

D. 1000

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- 914.** The air spaces may comprise upto _____ of total volume of leaf surface?
- A. 30%
 - B. 20%
 - C. 40%
 - D. 50%
- 915.** The glycolate produced diffuses into the membrane bounded organelles called _____?
- A. Glyoxisomes
 - B. Peroxisomes
 - C. Lysosomes
 - D. Mitochondria
- 916.** The increase in pH of blood has _____ effect on the oxygen carrying capacity of haemoglobin?
- A. plus ve
 - B. - ve
 - C. No
 - D. All of these
- 917.** Percentage of CO₂ carried as carboxyhaemoglobin is _____?

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- A. 5%
- B. 70%
- C. 20%
- D. 10%

918. Arterial blood contains _____ of CO₂ per 1 ml of blood

- A. 54 ml
- B. 60 ml
- C. 64 ml
- D. 50 ml

919. Active site of Rubisco is evolved to bind?

- A. CO₂
- B. O₂
- C. H₂O
- D. All of these

920. More than _____ compounds of tar of tobacco smoke are involved to cause cancer?

- A. 5
- B. 90

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C. 15

D. 10

921. A disease of lungs in which inside of the lungs is damaged resulting in cough and fever?

A. Lung cancer

B. Asthma

C. Emphysema

D. Pulmonary tuberculosis

922. Number of spiracles present in cockroach is_____?

A. 15

B. 10

C. 20

D. 30

923. Of the following, which one is a contagious disease?

A. Tuberculosis

B. Lungs cancer

C. Asthma

D. Emphysema

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924. Number of spiracles present in the thorax of cockroach is_____?

A. 2

B. 3

C. 5

D. 4

925. Which of the following promotes growth in plants?

A. Photorespiration

B. Calvin cycle

C. Both of these

D. None of these

926. When abdomen expands, the number of spiracles open is_____?

A. 2

B. 3

C. 6

D. 8

927. Which of the following animals has a respiratory system with one way flow of the air through the lungs, and the air is renewed after inspiration?

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- A. Cockroach
- B. Earthworm

C. Aves

D. Frogs

928. The blood enters the _____ side of heart ?

A. Posterior

B. Anterior

C. Lateral

D. All possible

929. Voice box is another name used for _____?

A. Buccal cavity

B. Pharynx

C. Larynx

D. Chest Cavity

930. All of the following contain cartilage except: _____?

A. Larynx

B. Trachea

C. Bronchi

D. Bronchioles

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931. Gaseous exchange through the skin is known as _____ respiration?

A. Cuticular

B. Cutaneous

C. Skin

D. Pulmonary

932. Respiratory distress syndrome is common especially for infants with a _____?

A. Less than 7 month

B. Less than 8 month

C. Less than 9 month

D. More than 9 month

933. Parabronchi are open at _____ end/s?

A. Single

B. Both

C. Do not have opening

D. None of these

934. In most birds air sacs are _____ in number?

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A. 10

B. 3

C. 4

D. 9

935. Vocal cords are stretched across_____?

A. Larynx

B. Pharynx

C. Glottis

D. None of these

936. A joint formed between humerus, radius and ulna is an example of_____?

A. Immovable joint.

B. Slightly movable joint.

C. Freely movable joint.

D. Fibrous joint

937. Which of the following plays the major role in providing support to young herbaceous parts of the plant?

A. Living cells of epidermis with higher turgor pressure.

B. Living cells of cortex and pith with

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higher turgor pressure.

C. Collenchyma cells

D. All of these

938. Joint between two parietal bones, which is infact immovable one is an example of_____?

A. Fibrous joints.

B. Cartilaginous joints.

C. Synovial joints.

D. None of these

939. Fibrous capsule surrounding synovial joints may be thickened at some places to form:

A. Synovial membrane.

B. Ligaments.

C. Muscles.

D. Tendon

940. Higher turgor pressure in a plant cell is maintained by_____?

A. Large number of vacoules in a plant cell.

B. Higher ionic concentration inside

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vacuoles resulting from active pumping of ions at their tonoplastic membrane
C. Higher osmotic pressure of the cell vacuole

D. both b and c

941. In which of the following joint muscles are arranged in the same plane as that of joint?

A. Between radius and ulna.

B. Between ulna and scapula

C. Between humerus and scapula

D. Between femur and tibia.

942. Which of the following hormone is predominantly responsible for bone weakening in older women?

A. Progesterone.

B. Oestrogen.

C. Parathyroid hormone.

D. Calcitonin.

943. Secondary cell wall of sclerenchyma cells is impregnated with_____?

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A. Cellulose.

B. Peptidoglycan and murein.

C. Lignin.

D. Pectin.

944. Which of the following is a childhood disease resulting from nutritive Ca^{2+} deficiency?

A. Hypocalcaemia Tatanic spasms.

B. Osteomalacis.

C. Rickets.

D. Tetany

945. Among the followings which is the most longest supportive cell?

A. Tracheids

B. Sclereids

C. Trachea

D. Collenchyma cells

946. Which of the following statement about osteoporosis is incorrect.

A. It results from estrogen deficiency.

B. Bone eating process takes over bone formation process.

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C. There is reduction of bone mass and change in chemical composition of the matrix

D. It is common in old age.

947. An increase in plant girth due to activity of _____ is called secondary growth?

A. Cork cambium

B. Pith.

C. Vascular cambium.

D. Both a and c

948. Which of the following statements about fractures in old age is incorrect?

A. They are more common than in adult age.

B. Occur as a result of bone being thin and weak.

C. Due to good blood supply it results in quick healing.

D. It involves osteoblasts and osteocytes.

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- 949.** If two ends of fractured bone are opened and kept united via screws and wires drilled in bone substance. This step in fracture repair is called_____?
- A. **Open reduction.**
 - B. Closed Fixation.
 - C. Open fixation.
 - D. Immobilization
- 950.** Vascular Cambium initially appears as actively dividing cells between_____?
- A. Primary Xylem and secondary xylem.
 - B. Primary xylem and secondary phloem.
 - C. **Primary xylem and primary phloem**
 - D. Secondary xylem and secondary phloem.
- 951.** A fracture hematoma has_____?
- A. Healing properties.
 - B. Destructive properties.

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C. Neutralizing properties.

D. Dead cells

952. Sperms of liverworts, mosses, ferns move towards archegonia, in response to uncleic acid released by the ovum.

This is an example of _____?

A. Chemotropic movement

B. Chemotactic movement

C. Chemosastic movement

D. Haptonastic movement

953. Which of the following cells are involved in soft callus formation?

A. Fibroblast and osteoblast.

B. Osteoblast and osteoclast.

C. Osteoclast and osteocyte

D. Onteocyte and osteoblast

954. Bony callus formation completes in_____?

A. 2-3 weeks

B. 3-4 weeks.

C. 2-3 months.

D. 3-4 months.

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- 955.** The place of attachment of leaf with the shoot is called _____?
- A. Pith.
 - B. Pit.
 - C. Pulvinus
 - D. Ecdysone
- 956.** Which of the following is a uni-nucleated cell?
- A. A smooth muscle cell.
 - B. A cardiac muscle cell.
 - C. A skeletal muscle cell.
 - D. All of these
- 957.** Rapid movement of leaves of mimosa on touching is an example of _____?
- A. Turgor movement
 - B. Nastic movement
 - C. Tropic movements.
 - D. Growth movement
- 958.** The contraction of which of the following muscle fibers, is controlled by hormones?

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A. A smooth muscle

B. A cardiac muscle

C. A skeletal muscle.

D. All of these

959. Roots of a plant show_____?

A. Positive phototropism and negative geotropism

B. Negative phototropism and positive geotropism

C. Negative tactic movement and positive tropic movement

D. Positive geotropism of stem and roots

960. Why skeletal muscles are called striated muscles?

A. They appear darker than smooth muscles by naked eye.

B. Alternating dark and light bands appear on their surface when visualized by naked eye.

C. Alternating dark and light bands appear on their surface when visualized

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via a microscope.

D. All of these

961. Epinasty is controlled by_____?

A. Gibberellins

B. Abscisins

C. Auxins

D. Cytokinins

962. Which of the following statements is incorrect about skeletal muscle fibers?

A. They are multinucleated.

B. They are 10 – 100 μ m in diameter & surrounded by sarcolemma

C. They contain O₂ storing molecules called hemoglobin.

D. Their cytoplasm contains high concentration of carbohydrates

963. Gibberellins is an example of_____?

A. Growth inhibitor

B. Growth stimulator

C. Growth hormone

D. None of these

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- 964.** A smallest contractile unit of muscle contraction called sarcomere is the area between two:
- A. H- zone
 - B. M- Line
 - C. Z- Line**
 - D. A band
- 965.** Which of the following animal has a hydrostatic skeleton?
- A. Earthworm**
 - B. Round worm
 - C. Tape worm
 - D. Pin worm
- 966.** Diameter of thick filament is _____?
- A. 7 nm.
 - B. 8 nm
 - C. 16nm**
 - D. 10-100 ?m.
- 967.** In an annelids, the contraction of circular muscle results in _____?
- A. Lengthening of the body.
 - B. Shortening of the body.

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C. Widening of body

D. Thinning of body

968. The most important function of troponin is_____?

A. To bind with actin

B. To bind with tropomyosin.

C. To bind with Ca^{2+} ions.

D. All of these

969. Which of the following statement is incorrect about Molluscs?

A. They are surrounded by single or double pieces of hard skeleton.

B. Their shell grows as the animal grows.

C. They have hydrostatic skeleton.

D. They move by tube feet

970. If a cross section of a sarcomere is seen, each myosin is surrounded by how many actin molecules:

A. 9

B. 5

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C. 6

D. 7

971. Which one of the following forms the blk of exoskeleton of an arthropod?

A. Epicuticle

B. Procuticle

C. Ectocuticle

D. None of these

972. What happens during muscle contraction to the length of each myosin and action filament?

A. Z- lines get closer

B. A band becomes short

C. 1 band elongates

D. There is no change in sarcomere

973. Which of the following step occurs immediately after binding of Ca^{2+} with troponin molecule during muscle contraction.

A. Binding sites of actin get attached to the myosin head.

B. Troponin uncovers the actin binding

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sites.

C. Tropomyosin gets removed from the binding sites of actin filaments.

D. Ca^{2+} goes back inside sarcoplasmic reticulum.

974. Exoskeleton of a marine snail is composed of_____?

A. CaPO_4

B. CaCO_3

C. CaSO_4

D. SiO_2

975. Rigor mortis i.e, stiffening of body after death results from_____?

A. Accumulation of rigid proteins molecules in sarcoplasm.

B. Unavailability of ATP, which is necessary to break the link between actin and myosin.

C. Decrease in body temperature after death.

D. Death of tissue due to unavailability of O_2 .

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976. Which of the following statement about an arthropod exoskeleton is incorrect?

A. It permits gaseous exchange

B. It contains joints, for the same purpose as present in human skeletal system

C. It provides muscle attachment

D. Like all the other types of exoskeleton, they lack sensation

977. Ecdysone is _____?

A. An enzyme that digest endocuticle during an arthropodal ecdysis

B. A newly formed exoskeleton in arthropods

C. A hormone that regulates moulting in arthropods

D. A process that involves moulting

978. Endoskeleton is secreted by?

A. Ectoderm.

B. Endoderm.

C. Mesoderm.

D. All of these

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979. Which of the following statement about fatigue is correct?

A. The major event in it is accumulation of lactic acid.

B. Lactic acid accumulation turns pH in acidic range leading to muscle ache.

C. Ionic imbalance may also cause it.

D. All of these

980. Tetany is caused by_____?

A. Hypocalcemia

B. Hypercalcemia

C. Clostridium tetani.

D. Low O₂ level

981. Collagen fibers of bone are hardened by deposition of_____?

A. Ca & PO₄

B. CaCO₃

C. CaSO₄

D. SiO₂

982. Which one of the following is an example of a non-elastic connective tissue?

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A. Ligaments.

B. Tendon

C. Muscles.

D. None of these

983. Which one of the following is avascular structure?

A. A compact bone.

B. A spongy bone.

C. Cartilage

D. All of these

984. Which of the following muscle is an antagonistic member of Biceps brachii?

A. Bracheoradialis

B. Brachialis.

C. Intercostals

D. Triceps

985. Which of the following bone is not present in the hind-limb?

A. Femur

B. Tibia

C. Radius

D. Fibula

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986. Insertion of Biceps is on_____?

A. Ulna

B. Radius

C. Olecronon process of ulna.

D. Scapula

987. How many bones are present in the wrist?

A. 4 bones

B. 6 bones

C. 8 bones

D. 14 bones

988. Which of the following statement is incorrect regarding the locomotion in Euglena?

A. Move with the help of flagellum, attached to the anterior pole of the body.

B. Flagellum whipping backwards moving the organism forward, and when moves forward the organism moves backward.

C. Myonemes can change the direction

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of the body by making it to shorten from anterior to the posterior pole.

D. None of these

989. Which of the following bones are present in the palm of hand?

A. Carpals

B. Metacarpals

C. Phalanges

D. Metatarsals

990. Which of the following animal uses Setae and Muscles for their locomotion?

A. Cockroach

B. Snail

C. Earthworm

D. Star fish

991. How many vertebrae are present in vertebral column of man?

A. 33 vertebrae

B. 33 pairs of vertebrae

C. 25 vertebrae

D. 31 vertebrae

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992. Which of the following vertebrates have a fish-like body?

A. Reptiles

B. Aves

C. Amphibians

D. Mammals.

993. How many vertebrae are present in coccyx?

A. 7

B. 12

C. 9

D. 4

994. Which of the following pairs of fins in a fish body are paired?

A. Dorsal and ventral.

B. Pectoral and Pelvic.

C. Tail and anal

D. All of these

995. How many vertebrae are present in thoracic region?

A. 7

B. 12

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C. 5

D. 4

996. Among the following organisms which shows the best adaptations for locomotion?

A. Amoeba.

B. Earthworm.

C. Reptiles

D. Amphibians.

997. How many vertebrae are in sacrum?

A. 7

B. 12

C. 5

D. 4

998. Which of the following is the swiftest form of the locomotion?

A. Plantigrade

B. Digitigrade

C. Unguligrade

D. Hopping

999. S-band locomotion is characteristically seen in_____?

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A. Bony fish

B. Cartilaginous fish.

C. Fish like mammals.

D. All fishes.

1000. How many vertebrae are present in lumbar region?

A. 7

B. 12

C. 5

D. 4

1001. Which of the following bones are present in pectoral girdle?

A. Clavicle

B. Scapula

C. Both of these

D. None of these

1002. There are _____ types of nutrients needed by plants besides light to carry out photosynthesis

A. Two

B. Three

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C. Four

D. Five

1003. The site/s where most of the uptake of water and minerals take place is/are_____?

A. Root hairs

B. Root cells

C. Underground stem

D. All of these

1004. The uptake of water in plants involves_____?

A. Active transport

B. Passive transport

C. Both of these

D. None of these

1005. The membrane of vacuoles is known as_____?

A. Vacuoloplast

B. Tonoplast

C. Tanoplast

D. All of these

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1006. The diffusion of ions along with water also takes place by mass flow system along the _____ path?

A. Tonoplast

B. Apoplast

C. Symplast

D. Vacuolar

1007. Active transport is dependent on _____?

A. Photosynthesis

B. Respiration

C. Photophosphorylation

D. None of these

1008. In plants, the neighbouring cells are connected with one another by _____?

A. Plasmodesmata

B. Cell walls

C. Vacuoles

D. Both 'A' & 'B'

1009. In the root cells _____ pathway becomes discontinuous in the

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endodermis due to the presence of casparian strip.

A. Tonoplast

B. Apoplast

C. Symplast

D. Vacuolar.

1010. Cytoplasmic strands that extend through pores in adjacent cell walls are known as _____?

A. Pseudopods

B. Symplasts

C. Plasmodesmata

D. Pili

1011. In plants, water potential is determined by major factors?

A. Three

B. Four

C. Two

D. Five

1012. The pressure generated when water enters & inflates plant cells is called _____ potential?

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A. Water

B. Osmotic

C. Pressure

D. Solute

1013. The movement of water molecules from a region of higher water potential to a region of lower water potential (through membrane)

A. Deffusion

B. Osmosis

C. Active transport

D. None of these

1014. _____ potential is the measure of the change in water potential of a system due to the presence of solute molecules?

A. Osmotic

B. Pressure

C. Both of these

D. None of these

1015. _____ component of cell wall has grreat affinity with water?

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A. Lignin

B. Cellulose

C. Pectin

D. All of these

1016. Commonly in other plants than tall ones the speed of upward movement of water is_____?

A. 8mh-1

B. 1 mh-1

C. 7 mh-1

D. 4 mh-1

1017. Exceptionally the positive hydrostatic pressure generated by root pressure is about_____?

A. 600 Kpa

B. 800 Kpa

C. 1000 Kpa

D. 900 Kpa

1018. Cuticular transpiration is _____ of total transpiration?

A. 6-8%

B. 5-7%

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C. 7-9%

D. 4-6%

1019. All plants do not possess_____?

A. Lenticels

B. Cuticle

C. Stomata

D. All of these

1020. Lenticular transpiration is _____ of total transpiration?

A. 2-3%

B. 1-3%

C. 1-4%

D. 1-2%

1021. Introduction of vaccine within the body to produce immunity is an example of_____?

A. Artificially induced active immunity

B. Naturally induced active immunity

C. Artificially induced passive immunity

D. Naturally induced passive immunity

1022. The flow of lymph is maintained by_____?

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- A. Movement of viscera
- B. Breathing movements
- C. Valves
- D. All of these

1023. It is the discharge of blood from blood vessels?

- A. Myocardial infarction
- B. Cerebral infarction
- C. Cerebral Hemorrhage
- D. Thromboembolism

1024. All of the following are blood clots except:_____?

- A. Thrombus
- B. Embolus
- C. Atheroma
- D. Hematoma

1025. It is the measure of force with which blood pushes up against the walls of blood vessels.

- A. Stroke volume
- B. Cardiac output

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C. Blood pressure

D. Blood flow

1026. Which of the following have thickest walls?

A. Arteries

B. Veins

C. Capillaries

D. None of these

1027. QRS complex represents _____?

A. Atrial systole

B. Ventricular systole

C. Atrial diastole

D. Ventricular diastole

1028. Tricuspid valve is present _____?

A. Between right atrium and right ventricle

B. Between left atrium and left ventricle

C. At base of pulmonary artery

D. At base of aorta

1029. Cooley's anemia is another name used for _____?

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A. Leucemia

B. Thalassaemia

C. Sickle cell anemia

D. None of these

1030. Which of the following are proteins in nature?

A. Antibodies.

B. Interferons

C. Antitoxins

D. All of these

1031. Aerating openings formed in the bark through which exchange of gases takes place and water is lost in the form of vapours are_____?

A. Hydathods

B. Stomata

C. Lenticels

D. None of these

1032. Lenticels look like_____?

A. A big pore

B. Stoma

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C. Sponge

D. Cars or small protusions

1033. Transport of minerals from soil to epidermal cells of roots via carrier protein molecules along their concentration gradient is called_____?

A. Diffusion.

B. Facilitated diffusion.

C. Passive transport.

D. Active transport.

1034. Pulling upward of water and dissolved minerals towards the leaves through the xylem tissue is called_____?

A. Transpiration pull

B. Root pressure

C. Ascent of sap.

D. All of these

1035. A pressure created by active secretion of salts and other solutes from other cells into xylem sap is called_____?

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A. Transpiration pull

B. Root pressure

C. Osmotic pressure.

D. None of these

1036. Stomatal transpiration is _____ of total transpiration

A. 90%

B. 91%

C. 93%

D. 95%

1037. _____ function as multisensory hydraulic valve?

A. Lenticels

B. Guard cells

C. Hydathods

D. All of these

1038. _____ give rise to macrophages, which destroy larger particles by phagocytosis.

A. Nautrophils

B. Basophila

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C. Monocyte

D. Lymphocyte

1039. 95% of the cytoplasm of red blood cells is the_____?

A. Antibodies

B. Hemoglobin

C. Enzymes

D. Proteins

1040. Open circulatory system can contain_____?

A. Red Blood Cells

B. White Blood Cells

C. Haemoglobin

D. All of these

1041. Pressure flow theory was proposed by_____?

A. H-Van Mohl

B. Dixon

C. Vander wall.

D. Earnst Munch

1042. The opening and closing of stomata is directly controlled by the_____?

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A. Temperature

B. pH

C. Light

D. None of these

1043. There are _____ hypothesis which may explain opening and closing of stomata?

A. One

B. Two

C. Three

D. Four

1044. Low level of CO₂ favours _____ of the stomata.

A. Opening

B. Closure

C. Both of these

D. None of these

1045. Symbionts which help plants in uptake of phosphorous and trace metals such as zinc and copper.

A. Bacteria

B. Viruses

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C. Fungi

D. Cyanobacteria

1046. Addition of salts and other solutes from other cells into xylem sap, _____ the water potential of the xylem sap

A. Increases.

B. Lowers.

C. Doesn't effect.

D. Maintains.

1047. Single circuit heart is found in _____?

A. Fishes

B. Amphibians

C. Reptiles

D. Mammals

1048. Stomata open due to _____ of K^+ into the guard cells from the surrounding epidermis

A. Diffusion

B. Active transport

C. Osmosis

D. All of these

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1049. Which of the following is true about hearts of earthworm?

- A. There are 5-7 pairs of heart.
- B. They are present between 1-7th segments.

C. They are present lateral to the oesophagus.

- D. They pump blood from ventral to dorsal vessel.

1050. It has been estimated that in a normal person plasma constitutes about _____ by volume of blood.

- A. 35%
- B. 45%
- C. 55%**
- D. 75%

1051. Brown fat present in certain mammals is specialized in _____?

- A. Providing insulation in cold environment.
- B. Providing insulation in hot environment

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C. Rapid heat production.

D. Controlling heat production.

1052. Panting is a representative of which mechanism?

A. Pigmentation.

B. Respiration.

C. Evaporative cooling.

D. Excretion.

1053. Formation of heat shock proteins in plants results in_____?

A. Elevation of temperature in cold conditions.

B. Embracing the enzymes and other proteins and prevent their denaturation.

C. Change the chemical nature of other proteins thus making them heat resistant.

D. Help in evaporative cooling.

1054. Fishes, most of the invertebrates and amphibians are examples of _____ animals?

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A. Endotherms

B. Ectotherms

C. Heterotherms

D. Homeotherms

1055. The mechanism of regulation, generally between organism and its environment, of solutes and the gain and the loss of water is called_____?

A. Homeostasis

B. Hemostasis

C. Osmoregulation

D. Thermoregulation

1056. Which of the following represents osmoregulatory steps taken by hydrophytes?

A. Increases transpiration by increasing the surface area of the leave.

B. Small and thick leaves to decrease the surface area proportional to the volume of the leave.

C. Stomata closing in sufficient supply, and opening in restricted supply of

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water.

D. None of these

1057. Most of the marine invertebrates are_____?

A. **Osmoconformers**

B. Osmoregulators

C. Both depend upon the concentration of sea water

D. None of these

1058. Which of the following marine fishes are considered direct descendents of fresh water ancestors?

A. Hagfish

B. Jelly Fish

C. Star Fish

D. Bony fishes

1059. Which excretory product is produced in plants during autotrophic mode of life?

A. CO₂

B. H₂O

C. O₂

D. Both A and B

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1060. Which of the following statement about conifers is correct?

A. Stored excretory products in vacuoles, at a concentration that leads to crystal formation.

B. Accumulate waste in leaves, which fall in autumn.

C. Production of black wood in the center.

D. Excrete some of the waste materials directly into soil, occasionally using them as a chemical weapon against other competing plants.

1061. Purine and pyrimidine metabolism results in production of _____?

A. Creatinine

B. Trimethylamine oxide

C. Xanthine

D. None of these

1062. Amount of water required to excrete 1gN of Urea is _____?

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A. 1 ml

B. 50 ml

C. 100 ml

D. 150 ml

1063. Each ach nephridium of earthworm opens to the exterior by_____?

A. Nephrostome

B. Nephridiopore

C. Flame cell

D. Anus

1064. The main nitrogenous waste formed in the body of earthworm is/are_____?

A. Ammonia

B. Urea

C. Uric acid

D. Trimethylamine oxide

1065. Which of the following excretory structure is associated with gut of the organism?

A. Protonephridium

B. Metanephridium

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C. Malpighian tubules

D. Nephrons

1066. Which of the following nephrons play important role in production of concentrated urine?

A. Cortical

B. Medullary

C. Juxtramedullary

D. None of these

1067. Which of the following kidney stones are most common?

A. Calcium oxalate

B. Calcium phosphate

C. Uric acid

D. All of these

1068. Which of the following treatment will be administered first in a newly diagnosed renal failure patient?

A. Renal transplant

B. Peritoneal Dialysis

C. Lithotripsy

D. Hemodialysis

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- 1069.** In plants, which of the following is a waste product produced both during photosynthesis and respiration?
- A. CO₂
 - B. H₂O**
 - C. O₂
 - D. Both A and B
- 1070.** In animals excess of nitrogen is excreted primarily in form of _____?
- A. Creatinine
 - B. Trimethylamine oxide
 - C. Pyrimidine
 - D. Ammonia**
- 1071.** Hydra has no specialized excretory system because:
- A. It does not produce waste material
 - B. Due to absence of mesoderm
 - C. The whole body cells are in contact with water**
 - D. It has pseudocoelom.
- 1072.** The distal blind end of the malpighian tubules bathes freely in _____?

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A. Digestive tract

B. Intestines

C. Haemocoel

D. Coelom

1073. Which of the following is a sentimentally arranged excretory system?

A. Protonephridium

B. Metanephridium

C. Malpighian tubules

D. Nephrons

1074. Excessive lactic acid is converted into _____ by liver?

A. Glucose

B. Fructose

C. Sucrose

D. Glycogen

1075. Each human kidney receives _____% of total cardiac out put?

A. 10%

B. 20%

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C. 30%

D. 40%

1076. On which of the following site the posterior pituitary hormone acts predominantly?

A. Proximal convoluted tubule

B. Descending limb of loop of Henle

C. Ascending limb of loop of Henle

D. Collecting tubules

1077. Animals that produce metabolic heat at low level and also absorb heat from the surroundings are called_____?

A. Endotherms

B. Ectotherms

C. Heterotherms

D. Homeotherms

1078. Blubber a thick layer of fat is present in_____?

A. Fresh water mammals

B. Terrestrial mammals

C. Marine Mammals

D. Flying mammals

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- 1079.** Production of pyrogens is a _____ phenomenon?
- A. Protective
 - B. Destructive
 - C. Constructive
 - D. Aggressive
- 1080.** Thermostat of human body is present in _____?
- A. Fore brain
 - B. Hind Brain
 - C. Thalamus
 - D. Hypothalamus
- 1081.** Which of the following structure in plant's body is called excretophores?
- A. Stem
 - B. Leaves
 - C. Flowers
 - D. Roots
- 1082.** The characteristic which enable animals to tolerate dehydration is called _____?

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A. Osmoconformation

B. Osmoregulation

C. Anhydrobiosis

D. Anhydrosis

1083. Which of the following fishes excrete large volume of diluted urine?

A. Bony Marine fishes

B. Fresh water fishes

C. Both depending upon the surrounding water

D. None of these

1084. Rose is an example of _____?

A. Hydrophytes

B. Mesophytes

C. Xerophytes

D. Halophytes

1085. In a hot summer after noon, if your body's Homeostatic machinery keep your internal temperature quite lower than that of external than this is an example of _____?

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A. Positive feed back

B. Negative feed back

C. Feed back

D. Osmoregulation

1086. Marine fish can keep their internal environment hypertonic with respect to the surrounding salty water by retaining.

A. Excessive urea which will increase their internal solute concentration and prevent body shrinkage in hypertonic environment

B. Trimethyl alanine

C. Ammonia

D. Trimethylamine oxide

1087. Terrestrial animals like kangaroo rat survive even without drinking water since_____?

A. They don't require water for their metabolic process

B. They can retain excessive water in their body during raining season.

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C. They feed on carbohydrate rich seeds which can provide them with metabolic water

D. They are anhydrobiotic organisms

1088. Aquatic animals excrete nitrogenous waste commonly in the form of _____?

A. Ammonia

B. Urea

C. Uric acid

D. Trimethylamine oxide

1089. Protonephridia are present in _____?

A. Round worms

B. Flatworm

C. Tape worms

D. Segmented worms

1090. Which of the following constituent is/are maximum in the filtrate that leaves proximal convoluted tubules?

A. Glucose

B. Amino acids

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C. Nitrogenous waste

D. All of these

1091. Which of the following mechanism explains development of anemia in Renal failure?

A. Failure of bone marrow is accompanied with renal failure.

B. Destruction of RBC results from accumulated urea in the blood.

C. Chronicity of the disease is responsible for anemia

D. Failure of proper RBC synthesis, due to lack of chemical stimulation.

1092. Which adaptation is acquired by plants of cooler areas to prevent lipid crystal formation in cell membrane?

A. Change in membrane protein composition.

B. Change in the solute composition of the cell membrane which prevents crystallization.

C. Increase in proportion of unsaturated

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fatty acids.

D. Development of heat shock proteins.

1093. Which of the following statement about Homeostasis is incorrect?

A. There is a definite control system that regulates the homeostatic activities

B. Homeostatic mechanisms keep the internal environment fixed despite of wide changes in external environment

C. Because of this the fluctuations of internal environment are of extremely narrow range as compared to that of external environment

D. All are correct

1094. Which of the following fish drink large amount of sea water and excrete concentrated urine resulting in maximum salt excretion and minimal water loss?

A. Hagfish

B. Fresh water fishes

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C. Bony fishes

D. None of these

1095. Normal body temperature in mammals like human beings is_____?

A. 26 – 28°C

B. 36 – 38°C

C. 46 – 48°C

D. 56 – 58°C

1096. In osmosis water molecules move from area of _____ through semipermeable membrane?

A. Higher solute concentration to lower solute concentration

B. Lower solute concentration to higher solute concentration

C. Lower solvent concentration to higher solvent concentration

D. All of these

1097. Which of the following is most toxic?

A. Ammonia

B. Urea

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C. Uric acid

D. Trimethylamine oxide

1098. In Urea cycle _____ ammonia molecules combine with 1 CO₂ molecule to form 1 molecule of urea.

A. 1

B. 2

C. 3

D. 4

1099. Which of the vascular channels are related to Juxtramedullary nephrons only?

A. Afferent and efferent arterioles

B. Peritubular capillaries

C. Vasa nervosa

D. Vasa recta

1100. A stone measuring .4 cm, blocking the outlet of renal pelvis resulting in mild to moderate tract obstruction. Which of the following technique will be opted to remove this stone?

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- A. Kidney surgery
- B. Burring a hole and removing the stone manually (nephrolithotomy)
- C. Extracorporeal Shock wave lithotripsy
- D. None of these

- 1101.** Bats & humming birds belong to _____?
- A. Endotherms
 - B. Ectotherms

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C. Heterotherms

D. Homeotherms

1102. Thick, waxy & leathery cuticle around leaves is present in_____?

A. Hydrophytes

B. Mesophytes

C. Xerophytes

D. Halophytes

1103. Which of the following animal excrete nitrogenous waste mainly as uric acid?

A. Hydra

B. Planaria.

C. Humans

D. Birds.

1104. Which of the following openings have cilia?

A. Nephrostome

B. Nephridiopore

C. Both of these

D. None of these

1105. Malpighian tubules absorb waste materials and salts from_____?

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- A. Blood
- B. Lymph
- C. Gut

D. Hemolymph

1106. Which of the following filtrate contains excessive amount of amino acids, glucose, and salts?

A. **Glomerular filtrate**

B. Filtrate passing through ascending limb

C. Filtrate passing through distal convoluted tubule

D. Filtrate passing through collecting tubules

1107. Mammalian kidney, under restricted water supply can conserve water by over _____ % reabsorption of glomerular filtrate

A. 80.50%

B. 90.50%

C. 95.50%

D. 99.50%

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- 1108.** The nephridia of earthworm open into the coelom by_____?
- A. Nephrostome
 - B. Nephridiopore
 - C. Flame cell
 - D. Anus
- 1109.** Nephrostome in earthworm opens in_____?
- A. External space
 - B. Internal Body cavity
 - C. In gut
 - D. In Bladder
- 1110.** Scolidon or dog fish belong to the group of fishes called_____?
- A. Cartilaginous fishes
 - B. Bony fishes
 - C. Running fishes
 - D. Jawless fishes
- 1111.** They are considered to be the most primitive and are surely the first of the vertebrates?

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- A. Frogs
- B. Reptiles
- C. Amphibinas
- D. Jawless fishes

1112. Sub- phylum vertebrate is also known as _____?

- A. Pisces
- B. Craniata
- C. Aves
- D. Amphibia

1113. The phylum chrordata comprise about how many species?

- A. 25,000
- B. 50,000
- C. 100,000
- D. 10,00,000

1114. It is stiff rod of special cells surrounded by connecive tissue present in the mid - dorsal region and appears in the embryos of all chordates

- A. Placenta
- B. Notochord

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C. Crania

D. Ligule

1115. Snails belong to_____?

A. Cephalopods

B. Gastropods

C. Bivalves

D. Arthropods

1116. In mouth cavity of many molluscs there is a rasping tongue like structure_____provided with many horny teeth.

A. Ligule

B. Radula

C. Mantle

D. Muscle

1117. All insects have how many parts of legs?

A. 4

B. 2

C. 3

D. 6

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1118. In all arthropods, the body is covered with a chitinous cuticle which is secreted by the _____?

A. Endodermis

B. Mesophyll

C. Chitin

D. Epidermis

1119. In many which phylum the body of an organism is usually divided into three regions called head, thorax and abdomen?

A. Arthropods

B. Chordata

C. Annelida

D. Echinodermata

1120. In man which organisms cause abscesses on the skin of arms or legs?

A. Ascaris

B. Bacteria

C. Ring worm

D. Suinea worm

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1121. Chitin in cockroach is absent in_____?

- A. **Epicuticle**
- B. Exocuticle
- C. Endocuticle
- D. All of these

1122. Melanin pigment in cockroach is found in_____?

- A. Epicuticle
- B. **Exocuticle**
- C. Endocuticle
- D. All of these

1123. The bristles on the body of the cockroach arise from_____?

- A. Epidermis
- B. **Trichogen cell**
- C. Basement membrane
- D. Malpighian cell

1124. The wax present on the body of cockroach is secreted:

- A. Mucocytes
- B. Leucocytes

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C. Oenocytes

D. Granulocytes

1125. Which organisms are sometimes called the "pastures of the sea"?

A. Diatoms

B. Radiolarians

C. Dinoflagellates

D. Foraminiferans

1126. Diatoms belong to _____?

A. Chrysophyta

B. Bacillariophyceae

C. Xanthophyceae

D. Both A. and B.

1127. Which one of the following is representing the group of diatoms?

A. Pinnularia, Navicula, Cymbella, Melosira

B. Euglenamorphia, Hedneria, Heteronema, Colacium

C. Nostoc, Anabaena, Aulosira, Cylindrospermum

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D. Cochlodinium, Gymnodinium,
Lenodinium, Peridinium

1128. Diatoms are found in_____?

- A. Phytoplanktonic population
- B. Freshwater lakes and ponds
- C. Marine environment

D. All of the above

1129. Centric discoid form of diatoms
is_____?

A. Diplaneis

B. Coscinodiscus

C. Camphyloneiscus

D. Stephanodis

1130. Microfossile often present in petroleum
producing formations are those
of_____?

A. Diatoms

B. Heliozoans

C. Radiolarians

D. Foraminiferans

1131. Cell wall is richly impregnated with
silica in_____?

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- A. Rhodophyta
- B. Phaeophyta
- C. Baciliariophyta
- D. Euglenophyta

1132. The cell wall is usually composed of two overlapping halves called epitheca and hypotheca in_____?

- A. Diatoms
- B. Desmids
- C. Pyrrophyta
- D. Chlorophyta

1133. Unlike other algae, diatoms do not readily decay due to_____?

- A. Nonliving cells
- B. Siliceous wall
- C. Mucilaginous wall
- D. Water proof cell

1134. Cell wall is extremely well preserved in fossil specimens in_____?

- A. Diatoms
- B. Dinoflagellates

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C. Slime moulds

D. None of these

1135. Empty diatom cells are called_____?

A. Raphe

B. Valves

C. Frustule

D. Girdles

1136. Diatom frustule/ shell is made of_____?

A. **Silica**

B. Calcium carbonate

C. Manesium carbonate

D. Both B. and C.

1137. The chloroplasts of diatoms and chrysophycean algae do not possess_____?

A. Chloryphyllpigments

B. Enzymes for photolysis

C. Defined grana and stroma

D. Carotenes with chlorophylls

1138. Oil body is found in the cells of_____?

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A. Diatoms

B. Slime moulds

C. Chlorophycean forms

D. None of the these

1139. Diatoms stay afloat due to_____?

A. Flagella

B. Stored lipids

C. Pseudopodia

D. All of these

1140. Diatomaceous earth is used for making _____?

A. Fertilizers

B. Weedicides

C. Insecticides

D. Fire proof bricks

1141. Locomotion in diatoms is carried out with the help of_____?

A. Valve

B. Raphe

C. Pseudopodium

D. Cilia or flagella

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1142. Golden brown colour of diatoms is due to presence of _____?

A. Mycoxanthin, mucoxanthin and myxoxanthophylls

B. Alpha and beta carotenes and myxoxanthin

C. Fucoxanthin, diatoxanthin, diadinoxanthin

D. None of the above

1143. Which of the following is not nocturnal?

A. Bedbug

B. Mosquito

C. Butterfly

D. Cockroach

1144. Which one of these is an insect?

A. Mite

B. Spider

C. Moth

D. Scorpion

1145. A moth is closely related to _____?

A. Wasp

B. Beetle

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C. Cricket

D. Butterfly

1146. Which one of these is a set of useful insects?

A. Sandfly , butterfly, hoeybee

B. Sikmoth, honeybee, locust

C. Honeybee, silkmoth, tsetse fly

D. Honeybee , lac insect, cochineal insect

1147. Which of the following organ is responsible for blood filtration:

A. Liver

B. Kidney

C. Lungs

D. Heart

1148. Which of the following organ is responsible for body metabolism?

A. Kidney

B. Liver

C. Lungs

D. Heart

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1149. The part of the brain that connects the two hemispheres of the brain is called_____?

- A. **Corpus callosum**
- B. Medulla oblongata
- C. Cerebral cortex
- D. Cerebellum

1150. In which phase of cell cycle cell organelles are formed?

- A. S Phase
- B. G1 Phase
- C. **G2 Phase**
- D. G0 Phase

1151. Vacuoles are fluid filled sacs surrounded by a membrane called_____?

- A. **tonoplast**
- B. nuclear membrane
- C. cell membrane
- D. cell wall

1152. During the process of cell division which of the following divides first?

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- A. cytodplasm
- B. vacuoles
- C. mitochondria
- D. nucleus

1153. Which of the following manufactures carbohydrates by the process of photosynthesis?

- A. chloroplast
- B. chromoplast
- C. leucoplast
- D. All of these

1154. which of the following is called protein synthesizing machine?

- A. mitochondria
- B. nucleus
- C. chromosomes
- D. ribosomes

1155. Cell wall is the non living , outermost boundary of _____ cell?

- A. plant
- B. bacterial

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C. fungal

D. all the above

1156. The light microscope can make the object_____times bigger?

A. 10 times

B. 100 times

C. 1000 times

D. 10000 times

1157. Which of the following is a selectively permeable membrane?

A. cell wall

B. cytoplasm

C. cell membrane

D. none of these

1158. Which of the following endoplasmic reticulum has no ribosome on its surface?

A. smooth

B. rough

C. both

D. all of above

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1159. which of the following gas discovered by Scheele?

- A. chlorine
- B. hydrogen
- C. oxygen
- D. carbon dioxide

1160. In plants there are _____ basic types of tissues?

- A. 2
- B. 3
- C. 4
- D. None of these

1161. Simple tissues and complex tissues are two groups of _____ tissues.

- A. Meristematic
- B. Permanent
- C. Epidermal
- D. Supporting

1162. which of the following consists of the dead cells?

- A. Parenchyma

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B. collenchyma

C. sclerenchyma

D. none of these

1163. Xylem and phloem are conducting tissues found in?

A. animals

B. plants

C. micro organisms

D. all the above

1164. Human brain contains _____ neurons.

A. 10,000,00

B. 100,000,000

C. 100,000,000,000

D. 1000

1165. Which of the following are connective tissues?

A. cartilage

B. bone

C. blood

D. all the above

1166. Which one of these structures involved in replication of bacterial dna?

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A. chromosomes

B. pilli

C. plasmid

D. mesosome

1167. Adult human brain is about _____% of the total body weight.

A. 2%

B. 3%

C. 7%

D. 8%

1168. Humans can hear in the range of _____ to _____Hertz (Hz).?

A. 10 Hz to 10,000 Hz.

B. 20 Hz to 20,000 Hz.

C. 30 Hz to 30,000 Hz.

D. 40 Hz to 40,000 Hz.

1169. branches of biology and medicine concerned with the structure and function of plant and animal cells is called_____?

A. Nephrology

B. Semiology

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C. Orology

D. Cytology

1170. Which Part of the Brain Regulates Body Temperature?

A. cerebellum

B. cerebrum

C. hypothalamus

D. medulla

1171. A Vegetable containing sulphur is _____?

A. Potato

B. Cabbage

C. Brinjal

D. Pumpkin

1172. Which type of motions are present in solid?

A. translational

B. rotational

C. vibrational

D. all of these

1173. If a man having blood group AB marries a woman who is heterozygous for blood

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group, what is the probability of their first child having blood group B?

A. 40%

B. 45%

C. 50%

D. 71%

1174. Animals living in the three trunks are known as_____?

A. Arboreal

B. Volant

C. Amphibious

D. Aquaticx

1175. Who discovered the peptic ulcer causing bacteria H. PYLORI?

A. Robert Hook

B. James parkinson

C. Dr Barry Marshall and dr Robin Warren

D. None of these

1176. Which of the following statement is incorrect regarding germ theory of

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diseases postulated by Robert Koch_____?

A. A specific organism can always be found in association with a given disease

B. The organism can be isolated and grown in pure culture in the laboratories

C. The pure culture cannot produce the disease when inoculated into susceptible animal however the causative organism isolated from pure culture can do so.

D. It is possible to recover the organism in pure culture from the experimentally infected animals

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