

1. Which of the following groups of animals has a cellular or unicellular body
 - A. porifera
 - B. **protozoa**
 - C. eumetazoa
 - D. cnidaria

2. Which contribute to the success of Mendel
 - A. qualitative analysis of data
 - B. observation of distinct inherited traits
 - C. ****his knowledge of biology***
 - D. consideration of one character at one time

3. Genetic identity of a human male is determined by
 - A. autosomes
 - B. nucleolus
 - C. cell organelles
 - D. **sex chromosomes**

4. Upper part of sea or aquatic ecosystem contains
 - A. ***plankton***
 - B. nekton
 - C. benthos
 - D. plankton and nekton

5. The structure that is used for feeding in most molluscs is the
 - A. buccal cavity
 - B. **radula**
 - C. mouth
 - D. odontophore

6. Which one of the following pairs is not correctly matched
 - A. cursorial adaptations - Limb bones elongated
 - B. fossorial adaptations - Develops shoulder girdle
 - C. **arboreal adaptations - Webbed feet**
 - D. volant adaptations - Fusion of certain bones

7. Lamarck's theory of organic evolution was published in the book entitled
- A. Systima Naturee
 - B. Philosophic Zoologique**
 - C. Origin of species
 - D. none of these
8. Metabolic rate in mammals is controlled by
- A. pancreas
 - B. thyroid**
 - C. pituitary
 - D. liver
9. The ambulacral groove is found between the
- A. rows of tube feet**
 - B. radial nerves
 - C. layers of pedicellariae
 - D. rows of dermal ossicles
10. The agnathans and gnathostomes branched apart most likely during the
- A. cambrian period**
 - B. silurian period
 - C. devonian period
 - D. jurassic period
11. Many echinoderms have two parts to the stomach, these two parts are the
- A. enzymatic, cecal
 - B. cecal, cardiac
 - C. cardiac, pyloric**
 - D. pyloric, enzymatic
12. Which of the following fish may be characterized as eel-like, parasitic, and possessing a cartilaginous skeleton
- A. chimera
 - B. hag fish
 - C. lamprey**
 - D. ostracoderm

13. Which of the following evolved from a group of carnivorous pelycosaurs

- A. therapsids**
- B. labyrinthodonts
- C. anurans
- D. theropods

14. The freshwater fish that survived the Devonian period possessed

- A. efficient gills
- B. lungs**
- C. countercurrent flow
- D. paedomorphosis

15. Which of the following groups of animals has no parasites

- A. platyhelminthes
- B. nematoda
- C. porifera
- D. echinodermata**

16. tt mates with Tt. What will be characteristic of offspring

- A. 75% recessive
- B. 50% recessive**
- C. 25% recessive
- D. all dominant

17. Fertilizin is a chemical substance produced from

- A. mature eggs**
- B. acrosome
- C. polar bodies
- D. middle piece of sperm

18. Association of animals when both partners are benefited

- A. colony
- B. commensalism
- C. ammensalism

D. mutualism

19. The trochophore larva indicates a common ancestry for which of the following pairs
A. Mollusca-Annelida
B. Mollusca-Cnidaria
C. Mollusca-Cephalopoda
D. Mollusca-Nematoda
20. The desert animals confine their activities during night time, because they
A. can see well during the night
B. get sufficient food during night
C. **have a problem of conservation of water during the day time**
D. face less competition for food during night
21. The characters of no shell, integumental scales, a reduced head and being dioecious describes which of the following molluscs
A. caudofoveata
B. solenogastres
C. monoplacophora
D. polyplacophora
22. What is the correct sequence of zonation in the lentic environment (i) Profundal zone (ii) Sub-littoral zone (iii) Littoral zone
A. i, ii, iii
B. i, iii, ii
C. ii, iii, i
D. iii, ii, i
23. Which of the following facts make Lamarckism doubtful
A. neck of giraffe elongated for grazing from high trees
B. trees of high altitudes have sloppy branches to avoid deposition of snow
C. deer is fast runner for protection from predators
D. indian ladies have been getting their ears pierced since ages but pierced ears are not inherited
24. HCG is secreted by
A. placenta

- B. ovary
 - C. thymus
 - D. thyroid
25. The echinoderms have developed the ability to exploit many sources of food. The sea stars are _____, the sea urchins are _____, and the sea cucumbers are _____.
- A. planktivores, herbivores, worms
 - B. carnivores, herbivores, deposit feeders**
 - C. herbivores, detritivores, algae
 - D. detritivores, carnivores, plankton
26. The respiratory apparatus of agnathans may be characterized by
- A. lack of gill filaments
 - B. lack of an operculum**
 - C. the presence of a spiracle
 - D. acting as a filter feeding mechanism
27. The early therians most resembled a small _____
- A. pig
 - B. kangaroo
 - C. rat**
 - D. horse
28. The first well-known fossil of a tetrapod was _____
- A. in the genus Sphenodon
 - B. in the genus Latimeria
 - C. in the genus Ichthyostega**
 - D. in the genus Desmognathus
29. In a genetic cross having recessive epistasis, F₂ phenotypic ratio would be
- A. 9:6:1
 - B. 15 : 1
 - C. 9 : 3 : 4**
 - D. 12 : 3 : 1

30. Cross between AaBB and aaBB will form

A. 1 AaBB : 1aaBB

B. All AaBB

C. 3AaBB : 1aaBB

D. 1 AaBB : 3aaBB

31. RR (Red) Antirrhinum is crossed with white (WW) one. Offspring RW are pink. This is an example of

A. dominant-recessive

B. incomplete dominance

C. hybrid

D. supplementary genes

32. In humans, the placenta is

A. haemochorial

B. endothelial

C. epitheliochorial

D. syndesmochorial

33. Gastropoda taxonomy is currently under consideration. The traditional three subclasses are Prosobranchia, and two others

A. Nudibranchia, Pelycopoda

B. Pelycopoda, Opisthobranchia

C. Opisthobranchia, Pulmonata

D. Pulmonata, Nudibranchia

34. The monoplacophorans were known only from the fossil record until 1952 when _____ emerged from a deep-sea trawl net

A. specimens of Loligo

B. specimens of Mopalia

C. specimens of Pedicularia

D. specimens of Neopilina

35. Which one of the following statements is not true about energy flow

A. energy flow is greatly reduced at each successive trophic level from producers to herbivores and then to carnivores

B. the energy captured by the autotrophs does not revert back to solar input

- C. there is unidirectional flow of energy
D. the pyramids of energy are both top right and inverted
36. Neck and fore limbs in African giraffe increased in length as a result of
A. variation in these organs
B. mutations in these organs
C. use and disuse
D. none of these
37. Cushing syndrome is due to the hyper secretion of
A. thyroid
B. adrenal cortex
C. pituitary
D. none of these
38. Which of these classes is characterized by an endoskeletal test, a complex chewing apparatus, no arms, pedicellaria with three jaws, closed ambulacral grooves, and movable spines
A. echinoidea
B. asteroidea
C. ophiuroidea
D. crinoidea
39. The larva of the lamprey is known as the
A. trilobite larva
B. veliger
C. ammocete
D. tornaria
40. The implied presence of sebaceous and sweat glands in early mammals signified what
A. fossilized casts
B. hair
C. epidermis
D. none of these

41. The adaptive radiation of the mammals occurred during the ____
- A. triassic
 - B. jurassic
 - C. cretaceous
 - D. cenozoic**
42. To facilitate cutaneous respiration, the skin of amphibians is
- A. moist and covered with scales
 - B. moist and richly vascularized**
 - C. dry and richly vascularized
 - D. dry and covered with scales
43. The kidneys of amphibians are
- A. pronephric
 - B. metanephric
 - C. mesonephric**
 - D. anephric
44. Members of the order _____ often produce spermatophores
- A. urodela**
 - B. gymnophiona
 - C. apoda
 - D. anura
45. A dihybrid condition is
- A. segregation
 - B. dominance
 - C. independent assortment
 - D. polygenic inheritance**
46. Torsion is a process that rotates the _____ of the body of gastropods
- A. surface
 - B. mantle
 - C. viscera**
 - D. none of these

47. The total output of photosynthesis, including the organic matter used up in respiration during the period of measurement, is called
- A. net primary productivity
 - B. gross primary productivity**
 - C. net community productivity
 - D. secondary productivity
48. In the animal kingdom, several degree of Interspecific interactions can be recognized. Which one of the following is true for proto cooperation interactions
- A. both partners gain but neither can survive without the other
 - B. one of the species is harmed by the relationship
 - C. presence of one species appears to have no effect on a second species
 - D. both partners gain, though each is able to survive separately**
49. Which of the following concepts is attributed to Lamarck
- A. inheritance of acquired characters**
 - B. survival of the fittest
 - C. struggle for existence
 - D. none of these
50. Goitre is caused by
- A. excess secretion of thyroxin
 - B. deficiency of iodine**
 - C. over eating
 - D. deficiency of growth hormone
 - E.

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