

PPSC LECTURER ZOOLOGY PAST PAPERS SOLVED

1. The amphibians and the \_\_\_\_\_ represent the two major branches of the tetrapod lineage
  - A. reptiles
  - B. birds
  - C. temnospondyls
  - D. amniotes
  
2. Which of the following statements about hair is true
  - A. it is homologous to feathers
  - B. it is a dermal structure
  - C. it is found in all mammals
  - D. it is possessed by all endotherms
  
3. Approximately how many species of fish are known
  - A. **28,000**
  - B. 5,000
  - C. 10,000
  - D. 50,000
  
4. The endoskeleton of the echinoderms is composed of
  - A. keratin ossicles
  - B. *calcareous ossicles*
  - C. keratin spicules
  - D. calcareous spicules
  
5. The first hormone that was isolated
  - A. thyroxine
  - B. vasopressin
  - C. secretin
  - D. adrenaline
  
6. The ultimate source of organic variations is
  - A. sexual reproduction
  - B. hormonal action

**C. natural selection**

D. mutation

7. Which one of the following is a group of major green house gases  
**A. carbon dioxide, methane, chlorofluro carbons and oxides of nitrogen**  
B. ethane, oxides of nitrogen, carbon monoxide and chlorofluro carbons  
C. carbon monoxide, methane, chlorofluro carbons and oxides of nitrogen  
D. carbon dioxide, oxides of nitrogen, ethane and chlorofluro carbons
8. The structure of molluscs that forms the shell and houses the gills is the  
**A. mantle**  
B. epidermis  
C. gastrovascular cavity  
D. odontophore
9. In an ecosystem, which one shows one way passage  
A. nitrogen  
B. carbon  
C. potassium  
**D. free energy**
10. The central fluid filled cavity of the blastula is known as  
A. archenteron  
**B. blastocoel**  
C. blastocyst  
D. morula
11. The mammalian skull may be characterized as \_\_\_\_\_  
A. anapsid  
B. diapsid  
C. biaspid  
**D. synapsid**
12. The first terrestrial tetrapods were probably the

- A. rhipidistians
- B. amniotes
- C. coelacanth
- D. leptocephalans

13. Which of the following phyla of animals is exclusively marine

- A. protozoa
- B. porifera
- C. echinodermata
- D. mollusca

14. A normal green male Maize is crossed with albino female. The progeny is albino because

- A. trait for albinism is dominant
- B. the albinos have biochemical to destroy plastids derived from green male
- C. **plastids are inherited from female parent**
- D. green plastids of male must have mutated

15. Sertoli cells are found in

- A. liver
- B. seminiferous tubules
- C. pancreas
- D. gut

16. The sum total of the populations of the same kind of organisms constitute

- A. colony
- B. genus
- C. species
- D. community

17. A molluscan shell is made of three layers arranged from the outside to the inside

- A. periostracum, prismatic layer, nacreous layer
- B. mantle layer, prismatic layer, periostracum
- C. nacreous layer, periostracum, mantle layer
- D. none of these

18. Which one of the following can achieve protection and conservation of biodiversity
- A. eco-development
  - B. biosphere reserve
  - C. national park
  - D. game sanctuary
19. Lamarck's "Theory of Organic Evolution" is based upon
- A. effect of environment
  - B. use and disuse of body parts
  - C. inheritance of acquired characters
  - D. all of these
20. Myxoedema in adults is caused due to
- A. hyperthyroidism
  - B. deficiency of thyroid hormone
  - C. overproduction of PTH
  - D. deficiency of PTH
21. "The animals of colder countries have small ears, short tail and limbs to avoid more loss of heat" is the theme of
- A. Allen's law
  - B. Dollo's law
  - C. Gause's law
  - D. Cope's Law
22. Testosterone is secreted by
- A. sertoli cells
  - B. leydig cells
  - C. spermatocyte
  - D. histiocyte
23. Changing from a bilaterally symmetrical larval form to a radially symmetrical adult involves relocation of various parts. In this process, the left side becomes the \_\_\_\_\_ and the right side becomes the \_\_\_\_\_
- A. aboral surface, oral surface
  - B. anterior surface, posterior surface
  - C. dorsal surface, ventral surface
  - D. oral surface, aboral surface

24. The class name Myxini, or the hagfishes, refers to their
- A. lack of eyes
  - B. unique circulatory system
  - C. production of slime**
  - D. parasitic lifestyle
25. The earliest therians (mammals) evolved in the \_\_\_\_
- A. Permian
  - B. Triassic**
  - C. Cretaceous
  - D. Cenozoic
26. The development of limbs probably aided the first amphibians in
- A. finding mates
  - B. swimming
  - C. moving between bodies of water**
  - D. none of these
27. Which of the following is odd one
- A. cockroach, spider, silver-fish
  - B. whale, bat, lizard
  - C. star-fish, sea-cucumber, sea-urchin
  - D. cray-fish, cuttle-fish hag-fish**
28. ABO blood group system is due to
- A. multifactor inheritance
  - B. incomplete dominance
  - C. multiple allelism**
  - D. epistasis
29. In human beings, the eggs are
- A. microlecithal
  - B. macrolecithal
  - C. mesolecithal**

D. alecithal

30. Pyramid of numbers deal with number of

- A. species in area
- B. sub-species in a community
- C. individuals in a community
- D. *individuals in a trophic level***

31. The morphogenetic movement change the hollow spherical blastula into a/an

- A. embryonic disc
- B. gastrula**
- C. morula
- D. neurula

32. The dominant second trophic level, in a lake ecosystem, is

- A. benthos
- B. plankton
- C. zooplankton**
- D. phytoplankton

33. Which of the following classes of molluscs is thought to be the most primitive or closest to the ancestral form

- A. caudofoveata**
- B. solenogastres
- C. monoplacophora
- D. polyplacophora

34. Similar niches different communalities or in different regions are commonly occupied by species possessing similar habits, adaptations and adjustments, Such species are called

- A. ecological equivalents
- B. ecotypes**
- C. ecological dominants
- D. diverse species

35. Best suited examples given in favour of Lamarckian Theory are

- A. elongation of neck and fore limbs of African giraffe
- B. loss of limbs in snakes

- C. both (a) and (b)
- D. none of these

36. Diabetes mellitus is due to deficiency of

- A. LH
- B. FSH
- C. glucagon
- D. insulin

37. Which of these classes is characterized by no anus, no suckers, articulated ossicles, and a madreporite on the oral surface

- A. crinoidea
- B. ophiuroida
- C. asteroidea
- D. echinoidea

38. The derivation of the genus name assigned to the invasive marine lampreys found in the Great Lakes refers to their

- A. ability to be parthenogenetic
- B. rasping mouthparts
- C. holding on to rocks in a stream
- D. parasitic nature

39. Unlike reptiles, the first mammals were characterized by \_\_\_\_

- A. continuously replaced teeth
- B. only one set of teeth during the lifetime
- C. continuously growing teeth
- D. two sets of teeth during the lifetime

40. Some amphibians have \_\_\_\_\_, which are pigmented cells in the skin

- A. chromatophores
- B. osteoblasts
- C. miracidia
- D. none of these

41. The hearts of amphibians have
- A. one atria and one ventricle
  - B. two atria and one ventricle
  - C. one atria and two ventricles
  - D. two atria and two ventricles**
42. Blue eye colour is recessive to brown eye colour. A brown eyed man whose mother was blue eyed marries a blue-eyed woman. The children will be
- A. both blue eyed and brown eyed 1 : 1**
  - B. all brown eyed
  - C. all blue eyed
  - D. none of these
43. Implantation of blastocyst occurs
- A. 4th day
  - B. 5th day
  - C. 6th day
  - D. 7th day**
44. Which of the following structures do bivalves use in the process of digestion
- A. byssal threads
  - B. peristaltic muscles
  - C. a crystalline style**
  - D. a jaw
45. Ratios between energy flow at different points along the food chains when expressed as percentages, are called
- A. energy flow efficiencies
  - B. ecological efficiencies**
  - C. relative ratio of energy flow
  - D. ecological gradients
46. Productivity is the amount of organic matter produced
- A. per day
  - B. per unit area per unit time**
  - C. during photo-period of the day



- D. per unit area in twelve hours of photo period
47. Which of the following facts definitely casts doubt on Lamarckian theory
- A. snakes lost their limbs due to burrowing mode of life
  - B. neck and fore limbs of African giraffe use for generations
  - C. vestigial organs were functional ones but now undergone degeneration due to loss of their function
  - D. blacksmith's son does not have powerful arm muscles as his father**
48. Oxytocin stimulates the contraction of
- A. ovary
  - B. lung
  - C. uterus**
  - D. heart
49. Aristotle's lantern is a complex set of \_\_\_\_\_ used in the process of
- A. ossicles and muscles, chewing**
  - B. tentacles and cilia, reproduction
  - C. glands and muscles, digestion
  - D. neurons and ocelli, visual sensation
50. The structure in the intestine of chondroitin fish and some primitive osteichthyea fish that increases the surface area is the
- A. duodenum
  - B. jejunum
  - C. caecum
  - D. spiral valve**

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