

# QDR QUARTERLY EXAMINATION - 2013

**XI** – Std

**BIOLOGY**

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Time : 3.00 Hrs

**BIO - BOTANY**

Marks : 150

**I Answer all the questions. Choose the correct answer. Each questions carries one mark.**

1. The basic unit of classification is 14 X 1 = 14  
a) Genus                      b) Species                      c) Family                      d) Taxon
2. The infective nature of virus is due to  
a) protein coat                      b) nucleic acid                      c) envelope                      d) tail fibre
3. Cell which keeps changing its shape is called  
a) spirilla                      b) pleomorphic                      c) symbiont                      d) gram - negative
4. The body of fungi is called as  
a) besidiocarp                      b) hyphae                      c) mycenium                      d) peptidoglycan
5. Phycology is the study of  
a) plant                      b) virus                      c) algae                      d) bacteria
6. Riccia belongs to the class  
a) amphibia                      b) hepaticae                      c) anthocerotae                      d) musci
7. The earliest known vascular plants are  
a) pteridophyta                      b) thallophyta                      c) bryophyta                      d) spermatophyta
8. Which of the following tree is a good source of paperpulp  
a) ephedra                      b) aracarica                      c) agathis                      d) pinus
9. The largest plant cell is  
a) megaspore of pinus                      b) ovules of cycas                      c) bacteria cell                      d) ovules of aracarica
10. An exception of cell theory is                      a) fungi                      b) bryophyte                      c) seed plant                      d) pteridophyte
11. Phagocytosis is also known as  
a) cell eating                      b) cell death                      c) cell drinking                      d) cell lysis
12. These are colourless plastids  
a) chromoplast                      b) chloroplast                      c) elaioplast                      d) Leucoplast
13. The type of phyllotaxy found in calotropis is \_\_\_\_ .  
a) alternate                      b) opposite decussate                      c) opposite superposed                      d) ternate
14. The most conspicuous and characteristic structure of angiosperms is  
a) flower                      b) seed                      c) fruit                      d) leaf

**II Answer any seven questions. Each question carries 3 marks.**

7 X 3 = 21

15. What are the three groups of fruit? (with example)
16. What are pneumatophores?
17. Define : Crossing over.
18. What is polysome?
19. What are aims of classification?
20. List the any three living characteristic of viruses.
21. What are mycorrhizae?
22. What are monoecious plants?
23. Write any two uses of diatomite.
24. What is peat?

**III Answer any four questions. Answer the questions 28 compulsory.**

4 X 5 = 20

25. List the difference between plants and animals.
26. Write about pigmentation in algae.
27. Write the economic importance of Bryophytes.
28. Explain the ultra structure of chloroplast.
29. Define phyllode and phylloclade.
30. Explain the hypogynous and epigynous flowers with example.
31. Give an account of head inflorescence.

**IV Answer any two of the following questions.**

2 X 10 = 20

32. Explain the different types of placentation with example.
33. Describe the modifications of taproot system.
34. Describe the fine structure of a cell wall.
35. Write the economic importance of algae.

## BIO - ZOOLOGY

- I Answer all the questions. Choose the correct answer .** 16 X 1 = 16
1. Which among the following is pseudocoelomate?  
a) platyhelminthes      b) annelids      c) mollusca      d) Nematoda
  2. Which among the following is blood fluke?  
a) Schistosoma      b) Taenia solium      c) Fasciola      d) Ascaris
  3. The hollow bones of birds are  
a) Pneumatic bones      b) Fused bones      c) Skull bones      d) Limb bones
  4. The infective stage of plasmodium is  
a) Cryptozoite      b) Amoebula      c) Sporozoite      d) Mesozoite
  5. Acrania refers to  
a) Fishes      b) Birds      c) Chordates      d) Prochordates
  6. The defeated group of animal is  
a) amphibians      b) reptiles      c) mammals      d) fishes
  7. Single celled animals  
a) protozoa      b) porifera      c) mollusca      d) annelida
  8. Amphioxus belongs to  
a) Hemichordata      b) Cephalo chodata      c) Urochordata      d) Vertebrata
  9. Pecten is  
a) pigmented process      b) eyes      c) nictitating membrane      d) sclerotic plates
  10. The segmented body muscles of the fishes are  
a) myotomes      b) smooth muscles      c) skeletal muscles      d) visceral muscles
  11. The name cell was coined by  
a) Robert Brown      b) Robert Hook      c) Galileo      d) Golgi
  12. A three dimensional image of the object can be produced by  
a) compound microscope      b) dark field microscope  
c) electron microscope      d) scanning microscope
  13. The cell respiratory organelle is  
a) ribosome      b) lysosomes      c) golgi bodies      d) mitochondria
  14. The number of nucleus in mammalian erythrocyte is  
a) one      b) many      c) two      d) nil
  15. The word cancer in latin means  
a) crab      b) virus      c) death      d) neoplasm
  16. The movement of the flagellum is regulated by  
a) plasma membrane      b) nucleus      c) basal body      d) ribosomes
- II Answer any eight questions.** 8 X 3 = 24
17. Why do we call nematocysts as stinging cells?
  18. Name the sub classes under mammalia.
  19. Mention three special features of primates.
  20. Define biosphere.
  21. What is trochophore?
  22. Why do we call birds as glorified reptiles?
  23. What is autolysis?
  24. What are the types of chromosomes based on the nature of their arms?
  25. What is a fluid mosaic model of a plasma membrane?
  26. What are the types of cancer?
  27. Name the parts of a compound microscope.
  28. Name the new branches of science related to cytology?
- III Answer any three of the following questions. Question No. 31 is compulsory.** 3 X 5 = 15
29. Write notes on cell theory.
  30. Differentiate TEM and SEM.
  31. What are the various concepts of species?
  32. Write notes on flight muscles of pigeon.
  33. Write any five principles of nomenclature.
- IV Answer any two questions in details.** 2 X 10 = 20
34. Provide an account on various animal groups.
  35. Explain the life cycle of plasmodium in man.
  36. Describe compound microscope with diagram.
  37. Write an account on cell nucleus with diagram.