



Reg. No. : .....

Name : .....

**First Semester B.Sc. Degree Examination, November 2018**  
**First Degree Programme Under CBCSS**  
**Zoology**  
**Core Course – I**  
**ZO 1141 : ANIMAL DIVERSITY – I**  
**(2015 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

**Instruction :** Draw diagrams *wherever* necessary.

I. Answer the following questions in **one** or **two** sentences (**one** mark **each**) :

- 1) Taxon.
- 2) Contractile vacuole.
- 3) Pseudocoelom.
- 4) Metagenesis.
- 5) *Caenorabditis elegans*.
- 6) Measly pork.
- 7) Haemocoel.
- 8) Moriculture.
- 9) Malacology.
- 10) Aristotle's lantern.

(10×1=10 Marks)

II. Answer **any eight** of the following. (**Not** to exceed **one** paragraph. **Each** carries **two** marks.)

- 11) What is Binomial nomenclature ? Give examples.
- 12) Mention any four salient features of protists.
- 13) Distinguish between radiata and bilateria.
- 14) Mention the economic importance of coral reefs.
- 15) Sketch and label the scolex of *Taenia solium*.
- 16) Give the salient features of Trematoda.



- 17) What is parasitic castration ?
- 18) Describe the nauplius larva of *Penaeus*.
- 19) What is radula ? Mention its function.
- 20) Mention the evolutionary significance of *Peripatus*.
- 21) What is an osphradium ? What is its role ?
- 22) What are pedicellariae ?

(8×2=16 Marks)

III. Answer **any six** of the following (**Not** to exceed **120** words. **Each** carries **four** marks) :

- 23) Comment on different types of taxonomical aids.
- 24) Describe the syconoid type of canal system in sponges.
- 25) Explain polymorphism with reference to *Physalia*.
- 26) Write the parasitic adaptations of leech.
- 27) Explain the morphology, life cycle and pathogenicity of *Wuchereria bancrofti*.
- 28) With a labelled diagram, describe the mouth parts of mosquito.
- 29) Give a brief account of the larval forms of *Penaeus*.
- 30) Describe the process of Pearl culture.
- 31) Enumerate the economic importance of molluscs.

(6×4=24 Marks)

IV. Answer **any two** of the following (**each** carries **fifteen** marks) :

- 32) With the help of diagrams explain the life history of *Plasmodium vivax* .
- 33) Describe the life cycle, damages caused and control measures of the following pests
  - a) *Oryctes*
  - b) *Rhyncophorus*
  - c) *Leptocorisa*
  - d) *Nilapaarvata*.
- 34) Describe the cephalothorasic appendages of *Penaeus* with suitable diagrams.
- 35) Explain the general characters of Phylum Echinodermata and classify the phylum up to classes with examples and salient features. (2×15=30 Marks)