



24125

I Semester B.Sc. Degree Examination, Nov./Dec. 2016

ZOOLOGY – I

Paper – Z.1 : Biology of Non-chordates (New)

Time : 3 Hours

Max. Marks : 80

Instructions: 1) Answer *all* questions.

2) Draw labelled diagrams *wherever* necessary.

SECTION – A

Answer **any five** of the following :

(5×2=10)

1. What is spongocoel ? Mention the types of canal systems in sponges.
2. Define perisarc and coenosarc.
3. Classify the phylum annelida with examples.
4. What is hexacanth larva ? Name the scientific name of tapeworm.
5. What is binomial nomenclature ? Expand ICBN and ICZN.
6. Assign the following animals to their respective phyla
 - a) Starfish
 - b) Limulus
 - c) Aurelia
 - d) Pheretima posthuma

SECTION – B

Answer **any six** of the following :

(6×5=30)

7. Sketch and label the nervous system of Pila globosa.
8. Write a note on any two echinoderm larvae.
9. Describe the reproductive system of prawn with a labeled diagram.
10. Write a note on vermicompost and its significance.
11. Write a note on the key characters of ascaris.
12. Explain briefly the systems of classification.
13. Write the unique characteristics of the phylum protozoa.
14. Write a short note on skeletal elements of sponges.

P.T.O.



SECTION – C

Answer **any four** of the following :

(4×10=40)

15. Describe in detail the various parasitic adaptations in platyhelminthes.
 16. Explain briefly the sexual phase in the life cycle of malarial parasite with a labeled diagram.
 17. Describe the morphology of Obelia with a neat labeled diagram.
 18. Explain the unique features of the phylum arthropoda and classify upto classes with example.
 19. a) Explain briefly about the reproduction in amoeba.
b) Classify the phylum coelenterata with examples.
 20. Write the salient features of the phylum echinodermata and classify upto classes with examples.
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