

Roll No.

Total No. of Questions : 9]
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UG (CBCS) Ist Year Annual Examination

2711

B.Sc. ZOOLOGY

(Animal Diversity)

(Core)

Paper : ZOOL-101 TH

Time : 3 Hours]

[Maximum Marks : 50

Note :- Attempt *five* questions in all, selecting *one* question each from Section B, C, D and E. Different parts of a question must be attempted at one place together. Question No. 1 is compulsory.

Section-A

(Compulsory Question)

1. Very short answer type. Do as directed :

(i) Lobopodia is present in :

- | | |
|----------------|------------------|
| (a) Amoeba | (b) Arcella |
| (c) Ent-amoeba | (d) All of these |

(ii) Cysticercus larva is found in :

- | | |
|--------------|----------------|
| (a) Dugesia | (b) Enterobius |
| (c) Fasciola | (d) Taenia |

- (iii) A colonial urochordate is :
- (a) Pyrosoma (b) Herdmania
(c) Doliolum (d) Molgul
- (iv) Most of cartilaginous fishes belongs to :
- (a) Elasmobranchi (b) Holocephalii
(c) Actinopterygi (d) Diponi
- (v) Reterogressive metamorphosis occurs in :
- (a) Hemichordata (b) Urochordata
(c) Vertebrata (d) All of these
- (vi) The best known stem reptile is
- (vii) Rectrices are the feathers of
- (viii) The flight membrane of bat is called as
- (ix) Name the only flagellated cells in the phylum porifera.
- (x) Excretion is performed by in platyhelminthes.

1×10=10

Section-B

2. (a) Discuss different types of locomotory organelles present in protozoans.

(b) What are the general characteristics of protists ? 6,4

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3. (a) Give diagrammatical representation of life history of *Taenia solium*. Do write briefly about the pathogenicity caused by the organism.
- (b) Write down about parasitic adaptations of nemathelminthes. 6,4

Section-C

4. (a) Describe the salient features and classification of phylum annelid up to class level giving at least two characters and one example of each class ?
- (b) Draw well labelled diagram of ommatidia of arthropods. 7,3
5. (a) Explain water vascular system in asteriodea.
- (b) Explain the process of torsion in detail. Also highlight the significance. 7,3

Section-D

6. (a) Differentiate between hemichordates, urochordates and cephalochordates with suitable example.
- (b) Differentiate between chondrichthyes and osteichthyes. 7,3

7. (a) Give classification of amphibians and discuss some suitable examples in various orders.
- (b) What do you know about parental care in amphibians. 7,3

Section-E

8. (a) Classify the class aves up to order level giving important characters and example of each group.
- (b) What do you know about flight adaptations in birds ? 7,3
9. (a) Differentiate between prototheria, metatheria and eutheria with suitable examples.
- (b) How will you differentiate between poisonous and non-poisonous snakes ? 7,3