

Roll No.

Total No. of Questions : 9]
(2042)

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UG (CBCS) Ist Year Annual Examination

2011

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 from each Section. Question No. 1 is compulsory.

Section-A

(Compulsory Question)

1. (A) Do as directed :

(i) Which of the following do not have locomotory organelles ?

- | | |
|---------------|----------------|
| (a) Rhizopoda | (b) Flagellata |
| (c) Cilliata | (d) Sporozoa |

CH-730

(1)

Turn Over

- (ii) In sponges, gemmules are produced as a result of :
- (a) External budding
 - (b) Internal budding
 - (c) Regeneration
 - (d) Sexual reproduction
- (iii) Nematocysts are found in :
- (a) Porifera
 - (b) Coelenterata
 - (c) Platyhelminthes
 - (d) Annelida
- (iv) Shedding of proglottid in tapeworm is called :
- (a) Histolytica
 - (b) Toplysis
 - (c) Apolysis
 - (d) Detachment
- (v) Which of the following parasites have no intermediate host ?
- (a) Tapeworm
 - (b) Ascaris
 - (c) Liver fluke
 - (d) Malarial parasite
- (vi) Mouthparts of moth and butterfly are of type.

(vii) Blood of mollusca contains :

- (a) RBC (b) WBC
(c) Amoebocytes (d) None of these

(viii) is the Larva of Starfish.

(ix) Petromyzon belongs to order

(x) Skull of is monocondylic. $1 \times 10 = 10$

(B) Write short notes on the following :

(i) Flagellar movement in mastigophora

(ii) Cnidoblasts

(iii) Madriporite

(iv) Archaeopteryx $2 \times 4 = 8$

Section-B

2. (a) Discuss the locomotory organelles in protozoa. Also describe in detail pseudopodial locomotion.

(b) Mention the distinguishing features of class Scyphozoa. $6 + 2 = 8$

3. (a) Discuss the life-history of *Taenia solium*.

(b) Write short notes on the following :

(i) Taeniasis

(ii) Cysticercus Larva $6 + 2 = 8$

Section-C

4. (a) Discuss metamerism in Annelida.

(b) Write down the general characters of class Hirudinea. $6 + 2 = 8$

5. (a) Describe metamorphosis in insects.
(b) Give diagrammatic representation of Torsion in Gastropoda. 6+2=8

Section-D

6. (a) What are Tube Feet ? Discuss the function of water vascular system.
(b) What is the basis of classification of Echinodermata ? Classify it up to classes giving example of each class. 5+3=8
7. (a) Discuss the advancement of class Chondrichthyes over the Cyclostomes.
(b) Give an account of osmoregulation in bony fishes. 5+3=8

Section-E

8. (a) Write notes on the following :
(i) Neoteny
(ii) Adaptations to Amphibious life
(iii) Parental care in Amphibia
(b) Enumerate the differences between poisonous and non-poisonous snakes. 6+2=8
9. (a) Write an essay on flight adaptations in birds.
(b) Describe the general characters of orders Rodentia and Cetacea. 6+2=8