

4. (a) Describe the general characteristics of Class Amphibia. Highlight their adaptations to terrestrial life. (7)
- (b) Distinguish between poisonous and non-poisonous snake based on morphological features. (8)
5. (a) Write the general characteristics of Class Aves, mentioning features that distinguish birds from other vertebrates. (7)
- (b) Compare and contrast the three major subclasses of mammalia (Prototheria, Metatheria and Eutheria). (8)
6. Write short notes on any **three** of the following : (5×3=15)
- (i) Water Vascular System in Echinoderms
 - (ii) Pearls Formation
 - (iii) Parasitic adaptation in Nematelminthes
 - (iv) Metamerism in Annelida

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5174

J

Unique Paper Code : 2234002004

Name of the Paper : GE-8 : Exploring Animal World

Name of the Course : **B.Sc/B.A/B.Com**

Semester : IV/VI

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **four** questions including Question no. 1 which is compulsory.
3. Draw diagrams wherever necessary.

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1. (a) Define any **five** terms : (5×1=5)

- (i) Polymorphism
- (ii) Proglottids
- (iii) Notochord
- (iv) Urochordata
- (v) Coelom
- (vi) Amoeboid Movement
- (vii) Catadromous

(b) Differentiate between any **three** pairs of terms : (3×2=6)

- (i) Radial Symmetry vs. Bilateral Symmetry
- (ii) Triploblastic vs. Diploblastic Organisms
- (iii) Chordates and Non-chordates
- (iv) Direct Development vs. Indirect Development
- (v) Cephalization vs. Metamerism

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(c) Match the following. (4×1=4)

Column A Column B

- (i) Nephridia (a) Attachment in Tapeworm
- (ii) Book gills (b) Stinging cells in Hydra
- (iii) Scolex (c) Excretion in Annelids
- (iv) Nematocysts (d) Respiration in Horseshoe crab

2. (a) Describe the types of body symmetry found in animals with suitable examples. (7)

(b) Discuss the various types of locomotory organelles found in protozoans with suitable examples. How do these structures aid in movement? (8)

3. (a) List and explain the general characteristics of Phylum Arthropoda. (7)

(b) Explain the canal system in phylum porifera and describe the different types with the help of well label diagram. (8)

P.T.O.