



DSA – 310

First Year B.Sc. Degree Examination, September/October 2012

Directorate of Distance Education

ZOOLOGY

Paper – I : Non-Chordata, Chordata, Paleontology and Zoogeography

Time : 3 Hours

Max. Marks : 75/85

- Instructions :**
- 1) Students who have attended **25 Marks IA** Scheme will have to answer for total of **75 Marks**.
 - 2) Students who have attended **15 Marks IA** Scheme will have to answer for total of **85 Marks**.
 - 3) **All questions are compulsory.**
 - 4) **One** mark question should be answered in **first two** pages of the answer book.
 - 5) Question No. **V** is **compulsory** for **85 Marks** Scheme.
 - 6) Draw **neat** labeled diagram **wherever** necessary.

- I. Simple answer questions : **(1×10=10)**
Answer in **a word, a phrase** or **a sentence**.
- 1) Define binomial nomenclature.
 - 2) Mention the function of Ctenidia.
 - 3) Name the disease caused by liver fluke.
 - 4) What is heterodont dentition ?
 - 5) Give an example for prototheria.
 - 6) What is pneumatic bone ?
 - 7) Name the larval form of fresh water mussel.
 - 8) Define venous heart.
 - 9) What is Agnatha ?
 - 10) What is retrogressive metamorphosis ?
- II. Short answer questions : **(5×3=15)**
Answer **any FIVE** of the following.
- 11) Describe the Bipinnaria larva.
 - 12) Define isolated distribution. Give two examples.

P.T.O.



13) Assign the following animals to their respective phyla.

- | | |
|--------------|-------------|
| a) Spongilla | b) Penaeus |
| c) Star fish | d) Obelia |
| e) Unio | f) Euglena. |

14) Write a note on Archaeopteryx.

15) List out the important characters of chondrichthyes.

16) Write a note on significance of fossils.

17) Explain the structure of sycon.

III. Medium answer questions :

(5×6=30)

Answer **any FIVE** of the following.

18) State the general characters of phylum Arthropoda and classify up to classes.

19) Describe the nervous system of leech with help of labeled diagram.

20) Describe the female urinogenital system of frog with neat labeled diagram.

21) Give an account on the life cycle of *Entamoeba histolytica*.

22) Mention the distinctive characters of order cetaea.

23) What are fossils ? And explain fossilization.

24) Enumerate the distinctive features of Archaeornithes and Neornithes.

IV. Long answer questions :

(2×10=20)

Answer **any TWO** of the following.

25) Explain the reproductive system of rabbit with neat labeled diagram.

26) Write notes on :

- a) Chiroptera
- b) Dinosaurs.

27) Explain the general characters of class Mammalia. Add a note on subclasses.

28) Describe the life cycle of *Plasmodium vivax*.

V. (**Compulsory** questions for **85** Marks Scheme only)

Long answer questions :

(1×10=10)

Answer **any ONE** of the following questions.

29) Explain the cranial nervous system of shark with neat labeled diagram.

30) Explain the life cycle of Penaeus.