

Q.P. Code – 50625

First Year B.Sc. Degree Examination

OCTOBER/NOVEMBER 2014

(Directorate of Distance Education)

Zoology

**(DSA 310) Paper I – NON-CHORDATA, CHORDATA,
PALAEOLOGY AND ZOOGEOGRAPHY**

Time : 3 Hours]

[Max. Marks : 75/85

Instructions to Candidates :

- 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) *Answer one mark question in the first two pages of the main answer book.*
- 5) *Draw the labelled diagrams **wherever** necessary.*
- 6) *Question No. **V** is **compulsory** for **85** marks scheme **only**.*

I. Simple Answer Questions :

Answer in a word or a phrase or a sentence :

10 × 1 = 10

1. Mention the functions of choanocytes.
2. Name the excretory structures in platyhelminthes.
3. Name the phylum whose members are exclusively marine.
4. Mention an example for Hemichordata.
5. What is heterodont dentition?

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6. Name an example of a flying mammal.
7. Name the locomotory structure in Annelida.
8. What is discontinuous distribution?
9. What are fossils?
10. Give an example for cyclostomata.

II. Short Answer Questions :

Answer any **FIVE** of the following :

5 × 3 = 15

11. Mention three classes of Annelida with examples.
12. Mention six zoogeographical realms.
13. Explain the salient features of Balanoglossus.
14. Classify the class Amphibia with example.
15. Assign the following to their respective phyla
 - (a) Plasmodium
 - (b) Jelly fish
 - (c) Liver fluke
16. Mention three diagnostic characters of chordata.
17. Give an account of Archaeopteryx.

III. Medium Answer Questions :

Answer any **FIVE** of the following :

5 × 6 = 30

18. Describe the cephalic appendages of penaeus.
19. Describe the life history of Entamoeba histolytica.
20. State the distinctive features of primates.

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21. Explain the geographical range, physical features and fauna of oriental region.
22. State the general characters of phylum Anthropoda with example.
23. With the help of neat labeled diagram describe the digestive system of leech.
24. Explain the factors affecting distribution of animals.

IV. Long Answer Questions :

Answer any **TWO** of the following :

2 × 10 = 20

25. Describe the male urinogenital system of Rabbit with neat labeled diagram.
26. Explain the life history of plasmodium vivax in mosquito.
27. Explain the general characters of the phylum mollusca and classify upto classes with examples.
28. Describe the venous system in Frog with neat labeled diagram.

V. **Compulsory** Question for **85** marks scheme only :

Answer any **ONE** of the following :

1 × 10 = 10

29. Explain the general characters of class Avis with examples.
 30. Describe the female urinogenital system of shark with a neat labeled diagram.
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