

First Year B.Sc., Degree Examinations

December 2017

(Directorate of Distance Education)

ZOOLOGY

DSA310: Paper I : Non-Chordata, Chordata, Palaeontology and Zoogeography

Time: 3 hrs.]

[Max.Marks:75/85

Instruction to the 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. *One mark questions should be answered in first two pages of the answer book.*
4. *Draw neat diagram wherever necessary.*
5. *All questions are compulsory.*
6. *Q.No. V is compulsory for 85 marks scheme.*

I. *Simple answer questions :*

10 X 1= 10 Marks

Answer in a word, or a phrase or a sentence.

1. Define metagenesis.
2. Mention the function of tube feet.
3. Define homeotherms.
4. What is synsacrum?
5. Give an example for Prototheria.
6. Define sexual dimorphism.
7. Mention the function of hirudin.
8. What are gemmules?
9. What is mould?
10. Define Zoogeography.

II. *Short answer questions :*

Answer any FIVE of the following.

5X 3= 15 Marks

11. Distinguish between male and female Ascaris.
12. Explain three important characters of Porifera.

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13. Write a note on significance of fossils.
14. Mention the orders of Reptalia with examples.
15. Write a note on barriers of dispersal.
16. Mention the distinctive characters of Herdmania.
17. Assign the following animals to their respective class
 - a) Euglena
 - b) Sacculina
 - c) Hydra.

III. *Medium answer questions :*

Answer any FIVE of the following.

5X6= 30 Marks

18. Explain the 'Golgi cycle' of *Plasmodium vivax*.
19. Explain male and female reproductive system in Prawn.
20. Mention salient features of phylum Mollusca and classify.
21. Describe the female urinogenital system of frog.
22. Bring out the differences between Chondrichthyes and Osteichthyes. Give examples for each.
23. Explain discontinuous animal distribution with example.
24. What are Dinosaurs? Explain about Ichthyosaurus and Brontosaurus.

IV. *Long answer questions :*

2X10=20 Marks

Answer any TWO of the following.

25. With neat labeled diagram explain.
 - a) Bipinnaria larva
 - b) Glochidium larva
26. Mention the general characters of Echinodermata. Classify with examples.
27. Describe the digestive system of Rabbit with the help of neat labeled diagram.
28. Write short notes on
 - a) Primates
 - b) Zoogeographical realms

V. Compulsory question for 85 marks scheme only. Long answer questions.

Answer any ONE of the following.

1X10=10 Marks

29. Describe the nervous system of the following

a) *Panaeus*

b) *Hirudinaria granulosa*

30. Write the distinctive characters of the following

1. *Ornithorhynchus*

2. *Loris*

3. *Ambystoma*

4. *Amphioxus*

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