

Q.P. Code – 50625

First Year B.Sc. Degree Examination

SEPTEMBER/OCTOBER 2013

(Directorate of Distance Education)

Zoology

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

Time : 3 Hours]

[Max. Marks : 75/85

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

SECTION – A

I. Simple answer questions :

Answer in a word, a phrase or a sentence :

10 × 1 = 10

1. Define species.
2. Name the parasite which causes malaria in man.
3. What are flame cells?
4. Mention the function of setae.
5. Give an example for Apoda.
6. What are nematocytes?
7. What are moulds?
8. Define fossils.
9. What is blubber?
10. What is pygostyle?

Q.P. Code – 50625

II. Short answer questions :

Write any **FIVE** of the following :

5 × 3 = 15

11. List the six salient features of Agnatha.
12. Draw a neat labelled diagram of Digestive system of Leech.
13. What is discontinuous distribution? Give two examples.
14. Assign the following to their respective orders :
 - (a) Bat
 - (b) Rabbit
 - (c) Whale
 - (d) Dog
 - (e) Elephant
 - (f) Porcupine
15. List the six important characters of ctenophora.
16. Mention the Importance of fossils.
17. Classify phylum Coelenterata up to classes with one example for each class.

III. Medium answer questions :

Answer any **FIVE** of the following :

5 × 6 = 30

18. List out the salient features of chordata.
19. State the general characters of class Reptilia and classify upto orders.
20. Write a note on tyrannosaurus.
21. Mention the distinctive characters of carnivora.
22. Describe the fauna of oriental region.
23. State the general characters of phylum porifera and classify upto classes.
24. Describe the Miracidium larva.

Q.P. Code – 50625

IV. Long answer questions :

Answer any **TWO** of the following :

2 × 10 = 20

25. Explain the arterial system of shark with a labelled diagram.
26. Describe the water vascular system of starfish with neat labelled diagram.
27. Write notes on :
 - (a) Cetacea
 - (b) Glochidium larva
28. Describe briefly cephalothoracic appendages.

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

Long answer questions :

Answer any **ONE** of the following :

1 × 10 = 10

29. Describe the brain of frog with neat labelled diagram.
 30. Explain the life history of obelia.
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