

Examination B. Sc. Semester – IV
Zoology (Non-CBCS)

Time allowed: 3 hrs

M. Marks: 80

SECTION – A

Note: All the questions are compulsory. Each Question carries two marks.

1. What is internal and external digestion?
2. Name different types of Respiration found in animals. (4 types)
3. What is Uricotelism?
4. What is Oestrus Cycle?
5. Define Osmoregulation.
6. Name hormones released by gonads.
7. Write down the difference between internal and external fertilization. (3 differences)
8. What do you mean by Holoblastic cleavage?
9. Define Ecosystem and who gave the term Ecosystem.
10. What is food chain and food web?

SECTION – B

Note: Attempt five questions, selecting one from each unit. Each carries twelve marks.

UNIT – I

11. Describe the process of digestion in animals

OR

12. Define Respiration, Respiratory pigments and their role in gas transport.

UNIT II

13. Explain different types of inoculations and give its graphic representation.

OR

14. Describe the mechanism of conduction of Nerve impulse.

UNIT – III

15. What is Hypothalamus – Hypophyseal complex and list the hormones of adenohypophysis?

OR

16. Explain the process of menstrual cycle in primates with help of diagrams.

UNIT – IV

17. What is Gametogenesis? Explain the process of spermatogenesis

OR

18. Explain various types of Placenta in mammals

UNIT – V

19. Define Ecological pyramids. Explain different types of Ecological pyramids in an ecosystem.

OR

2. Write note on:-
 - a) Eutrophication
 - b) Biomagnification