

Total Pages : 4

B.Sc./6th Sem (H)/ZOOLOGY/23(CBCS)

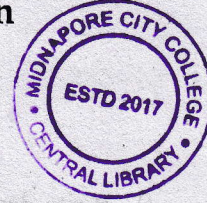
2023

6th Semester Examination

ZOOLOGY (Honours)

Paper : DSE 4-T

[CBCS]



Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers

in their own words as far as practicable.

[Biology of Insects]

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. Write two important external features of insects. 1+1
2. Name one neuro enzyme in insect. 2
3. Mention about two insect pest of paddy with scientific name. 1+1
4. State the importance of antennae in insects. 2
5. What is trophallaxis? Give an example. 1+1
6. What do you mean by phytophagous insect? Give one example. $1\frac{1}{2} + \frac{1}{2}$

P.T.O.



(2)

7. Write one important modification in the hind leg of grasshopper. 2

8. Mention the chemical nature of Chitin. 2

Group - B

Answer any *four* questions : 5×4=20

9. Write down the significance of compound eye in insects. 5

10. What is arolium? State its function with a suitable example. 2+3

11. What is photoreceptors? Discuss with suitable example. 2+3

12. Highlight the role of allelochemicals in host plant mediation. 5

13. Briefly describe the role of house flies as vectors. 5

14. Write a note on pericardial sinus. 5

Group - C

Answer any *one* question : 10×1=10

15. Write down the neuroendocrine control of metamorphosis in insect. 10

16. Write down the composition of haemolymph. Add a note on the process of blood circulation. 5+5



(3)

OR

[Wild Life Conservation and Management]

Group - A

Answer any *five* questions : 2×5=10

1. What is habitat analysis?

2. State one positive and one negative value of wildlife.

3. What is pug mark?

4. What is grazing logging in management of habitats?

5. What is meant by carrying capacity?

6. What do you mean by the terms Birth rate and sex ratio with reference to wildlife?

7. Name two tiger reserves in India.

8. Write two applications of GIS in wildlife management.

Group - B

Answer any *four* questions : 5×4=20

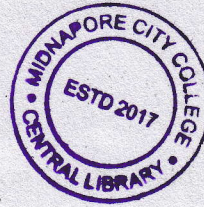
9. Mention the importance of wild life conservation.

10. What are the different criteria required for the management of wildlife?

11. Distinguish between in-situ and ex-situ conservation with examples.



P.T.O.



12. State the principles of ecotourism.
13. What are the causes of human-wildlife conflicts?
14. What are the different challenges in tiger conservation management?

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Distinguish between sanctuary, national park and biosphere reserve with examples. 10
16. (a) What are the major ecological perturbances?
(b) Discuss in brief the concept of climax persistence.

5+5