B.Sc./6th Sem (H)/ZOOL/24(CBCS)

2024

6th Semester Examination

ZOOLOGY (Honours)

Paper: DSE 4-T

[CBCS]

Full Marks: 40

Time: Two Hours

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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 from the following:

 $2 \times 5 = 10$

- 1. Write two important external features of insects.
- 2. State the significance of compound eye in insects.
- 3. What are the different types of metamorphosis in insects?
- 4. State the importance of antennae in insects.
- 5. Mention the function of aerolium.
- 6. What is the function of trophallaxis?

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8. What is gonopore?

Group - B

Answer any four questions from the following:

 $5 \times 4 = 2$

- 9. Write down the identifying characters of Order Hymenoptera with two examples.
- Comment on the mechanism of gaseous exchange in insects.
- 11. State the differences between aristate antennae and moniliform antennae with suitable examples.
- 12. Highlight the role of allelochemicals in host plant mediation.
- 13. Write down the composition of haemolymph.
- 14. State the differences between carrier & vector with examples.

Group - C

Answer any one question from the following:

 $10 \times 1 = 10$

- 15. Discuss the mechanism of photochemistry behind image formation in insects with suitable diagrams.
- 16. Write the scientific name of two paddy pests and state the nature of damage caused by them. Add a note on the control measure of any one such pest. 2+4+4=10

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OR

[Wild Life Conservation and Management]

Group - A

Answer any *five* questions from the following:

 $2 \times 5 = 10$

- 1. Write down the aims of 'Project Tiger'.
- 2. Define Ecotourism. Give an example of ecotourism spot of West Bengal.
- 3. Write down the pros & cons of Pug-mark technique.
- 4. What do you mean by conservation ethics?
- 5. Define Critically Endangered (CR) Species. Give example.
- 6. What is habitat analysis?
- 7. What is meant by carrying capacity?
- 8. What do you mean by the terms Natality and Mortality?

Group - B

Answer any four questions from the following:

 $5 \times 4 = 20$

9. Discuss the role of GIS and remote sensing in wild life management.

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- 10. Distinguish between Sanctuary, National Park and Biosphere reserve with examples. 5
- 11. Discuss the advantages and disadvantages of in-situ and ex-situ conservation. Give examples. $2\frac{1}{2}+2\frac{1}{2}$
- 12. What are the causes of human-wildlife conflict? 5
- 13. Write down the essential features of protected area. What do you mean by community reserve? 3+2
- 14. Briefly describe the methods of animal reintroduction. 5

Group - C

Answer any one question from the following:

 $10 \times 1 = 10$

- 15. Mention the significance of Ecological corridors in conservation biology. Briefly describe the concept of Climax persistence. 6+4
- 16. (a) What are the major ecological perturbations?
 - (b) What are the different Tiger conservation strategies?
 - (c) Name two Biosphere Reserves in India. 4+4+2

