

B.Sc. 6th Semester (Honours) Examination, 2021 (CBCS)

Subject: Zoology

Paper: DSE-3

(Animal Behaviour)

Full Marks: 40

Time: 2 Hrs

Candidates are required to give the answers in their own words as far as practicable.

Answer any **eight** questions of the following:

5×8=40

1. Distinguish between associative and non-associative learning with examples.
 2. Give an account of the caste system in honey bee.
 3. Distinguish between intrasexual and intersexual selection with suitable examples.
 4. Distinguish between taxis and kinesis. Explain different types of kinesis.
 5. Comment on the adaptive significance of biological clock.
 6. Mention the major evolutionary advantages and disadvantages of fixed action pattern (FAP).
 7. What is reciprocal altruism? Describe the foraging behaviour of Honey Bees.
 8. Describe the role of melatonin in regulation of circadian rhythm in vertebrates.
 9. Give a brief account of filial imprinting and sexual imprinting.
 10. Differentiate between classical and operant conditioning.
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(Wild Life Conservation)

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Answer any **eight** questions of the following:

5×8=40

1. Describe different in-situ conservation strategies for wildlife conservation.
 2. Define population density, natality, mortality and birth rate.
 3. What are the important physical parameters in a wildlife habitat?
 4. Give an account of the beneficial habitat management practices (at least five).
 5. Discuss briefly the causes and consequences of man-animal conflict around the tiger reserves in India.
 6. Briefly describe the impact of forest-fire on wildlife.
 7. Elucidate briefly positive and negative values of wildlife.
 8. Write short notes on national park, sanctuary and biosphere reserve with suitable examples.
 9. State the applications of the pug mark method for carnivore census in India.
 10. How ungulates and carnivores can be identified by their scats?
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