

M.Sc. Second Year (Zoology) CBCS Pattern Semester-III
PSCZOOT11-8 - Paper-XI - Special Group : Environmental Biology Paper-II
(Adaptations, Population Dynamics and Animal Behaviour)

P. Pages : 1

Time : Three Hours



GUG/W/23/11324

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw a well labelled diagram wherever necessary.

- 1.** Describe the adaptation of animal with reference to physical conditions. **16**

OR

Write notes on-

- a) Adaptation of animal with reference to chemical conditions: O₂ and CO₂.
- b) Thermoregulation

- 2.** Describe the biological rhythms. **16**

OR

Write notes on-

- a) Influence of viscosity and surface tension on organism.
- b) Mimicry and protective colouration

- 3.** Give an account of interspecific relationship. **16**

OR

Write notes on-

- a) Population structure.
- b) Prey and predator relationship.

- 4.** Give an account of intraspecific relationship. **16**

OR

Write notes on-

- a) Social behavior
- b) Innate behavior

- 5.** Attempt the following- **16**

- a) Bioluminescence
- b) Batesian mimicry
- c) Migration
- d) Genetic aspects of behavior.
