

**PSCZOOT11-8 Paper-XI Special Group : Environmental Biology Paper-II :
Adaptation, Population Dynamics & Animal Behaviour**

P. Pages : 1

GUG/W/22/11324

Time : Three Hours



Max. Marks : 80

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answer with well labelled diagram wherever necessary.

1. Write an essay on Osmoregulation and thermoregulation. **16**

OR

Write notes on:

- a) Chemical Conditions O_2 & CO_2
- b) Bioluminescence.

2. Write a detail account on definition and kinds of mimicry. **16**

OR

- a) Biological clock
- b) Batesian mimicry.

3. Describe interspecific relationship in detail. **16**

OR

- a) Prey predator relationship.
- b) Population growth & density relationship.

4. Write an essay on social behaviour. **16**

OR

- a) Aggregations & social organization
- b) Evolutionary aspects of behaviour.

5. Attempt the following. **16**

- a) Adaptations to temperature.
- b) Influence of viscosity on organism.
- c) Barriers of Dispersal.
- d) Innate Behaviour.
