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## FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(UG-CCSS)

Core Course-Zoology

## ZO 5B 09—ENVIRONMENTAL BIOLOGY, WILDLIFE CONSERVATION AND TOXICOLOGY

(2013 Admissions)

: Three Hours

Maximum: 30 Weightage

Answers may be written either in English or in Malayalam.

L Answer all twelve questions. Each question carries 0.25 weightage.

## Multiple choice questions:

- 1 Who coined the term Ecology?
  - (a) Carl Linnaeus.
- (b) Charles Darwin.
- (c) Ernst Haeckel.
- (d) Alfred Wallace,
- 2 The complete counting of animals of a specific area at a specific period of time:
  - (a) Sample census.
- (b) Census index.
- (c) Census estimate.
- (d) Census.
- 3 Barrier traps used to trap diurnal flying insects:
  - (a) Malaise traps.
- (b) Light traps.
- (c) Ultraviolet lamps.
- (d) Mercury vapour lamps.
- 4 Which one of the following is extinct?
  - (a) Indian Rhinoceros.
- (b) Arabian camel.
- (c) Passenger pigeon.
- (d) American Bison.

## Name the following:

- 5 The branch of ecology that deals with the biological relationship between an individual organism or an individual species and its environment.
- 6 The standard marking method ideal for large-eared mammals.
- 7 The ratio of live births in an area to the population of that area.
- 8 The neurological disease caused by severe mercury poisoning.

Turn over

|      | Fill i | in the blanks   |
|------|--------|---|
|      | 9      | The total species diversity of a landscape is called  |
|      | 10     | is the maximum reproductive capacity of an organism under optimum environmental conditions. |
|      | 11     | is the gradual process by which ecosystems change and develop over time.                    |
|      | 12     | is the movement of individuals of a species from one place to another.                      |
|      |        | $(12 \times 0.25 = 3 \text{ weightage})$  |
| II.  | Sho    | rt answer questions (Answer all nine questions).  |
|      |        | Define Synecology.  |
|      | 14     | What is biological magnification?   |
|      | 15     | What is commensalism?   |
|      | 16     | What is carrying capacity?  |
|      | 17     | What is botulism?   |
|      | 18     | Define ecological niche.  |
|      | 19     | What is edge effect?  |
|      | 20     | What is remote sensing?   |
|      | 21     |   |
|      |        | $(9 \times 1 = 9 \text{ weightage})$  |
| III. | Sh     | ort answer questions (Answer any five questions).   |
|      | 22     | Explain UNEP and its strategies.  |
| *    | 23     | Explain the levels of toxicity.   |
|      | 24     | What is Leybig's law of minimum?  |
|      | 25     | Briefly explain carbon cycle.   |
|      | 26     |   |
|      | 27     | What is germplasm? Explain the methods for its conservation.                                |
|      | 28     |   |
|      | •      | $(5 \times 2 = 10 \text{ weightage})$   |
| IV   | Es     | ssay questions (Answer any two questions).  |
|      | 29     | Write an essay on the consequences of habitat destruction.                                  |
|      | 30     | Describe the different types of population interactions.                                    |
|      | 3:     | 1 Write an essay on the threats to biodiversity.  |
|      |        | $(2 \times 4 = 8 \text{ weightage})$  |
|      |        | 6. The standard medicing method steal for large-cared marmals.                              |