

+31st Sem
Zoo (H) – II

(2)

2018

Full Marks : 60

Time : 3 hours

The questions are of equal value

Answer **all** questions

1. Answer the following :

- (a) What is modular population?
- (b) What are the main characteristics of a population?
- (c) Differentiate between natality and mortality.
- (d) What happens to population numbers as intraspecific competition increases?
- (e) What is population dispersion? Mention there types of dispersion.
- (f) Mention main four factors that affect population size in an ecosystem.
- (g) What is the difference between symbiosis and mutualism?

A/9(89)—3900

(Turn Over)

- (h) What is fecundity table in ecology?
- (i) Mention the three levels of diversity in an ecosystem.
- (j) Pyramid of energy is always upright. Justify.
- (k) How is detritus food chain connected with grazing food chain?
- (l) Which trophic level has the least biomass? <https://www.odishastudy.com>

2. Explain the 'laws of limiting factors'. Mention the effect of light and temperature.

Or

Write notes on the following :

- (a) Levels of organization
- (b) Autecology.

3. Explain the exponential and logistics growth highlighting its equation. Add a note on the r and K strategies.

Or

Write notes on the following :

- (a) Gause's principle
- (b) Survivorship curves.

A/9(89)

(Continued)

(3)

4. Define succession. Discuss the process of ecological succession with suitable example.

Or

Write notes on the following :

- (a) Species richness and dominance
- (b) Ecotone and edge effect.

5. What is energy flow in an ecosystem? Discuss the energy flow in an ecosystem with suitable illustrations.

Or

Write notes on the following :

- (a) Linear and Y-shaped food chain
- (b) Wildlife conservation.

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