

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain light is an important abiotic ecological factor.

Or

- (b) What are the structural and functional aspects of forest ecosystem?

17. (a) Explain the effects of parasites on host.

Or

- (b) Describe the pyramid of number, biomass and energy.

18. (a) Explain in detail about ecological succession.

Or

- (b) Write an essay on cave adaptations.

19. (a) Write an essay on Remote sensing in flood management.

Or

- (b) Write an essay on urbanization.

20. (a) Give the outline classification of Toxicants.

Or

- (b) Write a brief account on the importance of toxicology.

Reg. No. :

**Code No. : 11624 E Sub. Code : JMZO 22/
SMZO 22**

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2019.

Second Semester

Zoology — Main

ECOLOGY AND TOXICOLOGY

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. The rule which states that temperature influences the size of animals is
(a) Allen's rule (b) Bergman's rule
(c) Jordan's rule (d) Rensch's rule.
2. Find out the biotic factors.
(a) Producer (b) Consumer
(c) Decomposer (d) All of these.
3. In an interspecific relationship, no species is affected is called as.
(a) Commensalism (b) Neutralism
(c) Parasitism (d) Symbiosis.



4. The rivalry between two animals for a common resource is called
 (a) Competition (b) Neutralism
 (c) Parasitism (d) Predation.
5. The shape of the population growth curve during the logarithmic phase of growth is known as
 (a) Age pyramid (b) Biotic potential
 (c) Population growth (d) Survival curve.
6. Desert animals develop adaptations for.
 (a) water conservation (b) water elimination
 (c) water circulation (d) water recycling.
7. Illegal exploitation of wild species is called.
 (a) Protection (b) Preservation
 (c) Perpetuate (d) Poaching.
8. *Macaca silenus* is.
 (a) Flying squirell (b) Lion
 (c) Lion tailed monkey (d) Tiger.
9. Poison which affects brain and nervous system is called.
 (a) Nephro toxin (b) Neuro toxin
 (c) Haemo toxin (d) Hepato toxin.
10. What are toxic solvents?
 (a) Cadmium, Arsenic, lead
 (b) Calium, Phosphorus, Iron
 (c) Methanol, Xylene, Benzene
 (d) Sodium, Potassium, Magnesium.

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) What is hibernation? Explain its characteristics.
 Or
 (b) Explain Circadian rhythm with examples.
12. (a) What is food web? Explain it with example.
 Or
 (b) Briefly explain competition with suitable example.
13. (a) How to find animal Density.
 Or
 (b) What is ecological nich? Explain.
14. (a) Enumerate the reasons for the depletion of wild life.
 Or
 (b) Mention two wild life sanctuaries in Tamil Nadu and their animal life.
15. (a) Explain how toxicants enter into human body.
 Or
 (b) Write notes on Ecotoxicology.

