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SUBJECT CODE NO:- B-2033
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2019
Zoology Paper- XV
Ecology

[Time: 1:30 Hours]

[Max.Marks:50]

Please check whether you have got the right question paper.

- N.B
- 1) Attempt all questions
 - 2) Illustrate your answer with suitable labelled diagram.
- Q.1 Explain mutualism and parasitism with suitable examples. 20
 OR
 What is basic concept of ecology? Explain its terminology. 20
- Q.2 Give an account of components of ecosystem. 20
 OR
 Write a short note on any four of the following. 20
- a) Ecological niche
 - b) Mortality
 - c) Pyramid of energy
 - d) Population density
 - e) Species abundance
 - f) Food Web
- Q.3 Select and write correct answer form the given alternative in each sub question. 10
- 1) Organismic concept of community is proposed by_____
 - a) Robert Koch
 - b) Gleason
 - c) Morgan
 - d) Clements
 - 2) Rhythmic activity of organism for food, shelters and reproduction is_____.
 - a) Unidirectional
 - b) Cyclic
 - c) Biological clock
 - d) Non – cyclic
 - 3) _____ determines the carrying capacity of pupation.
 - a) Natality
 - b) Limiting resources
 - c) Mortality
 - d) Population growth rate
 - 4) Identify the possible link "X" in the following food chain.
 Grass → Insect → Frog → "X" → Eagle
 - a) Parrot
 - b) Rabbit
 - c) Cobra
 - d) Wolf

- 5) Bell – shaped polygonal pyramid indicates _____.
- Low percentage of young individuals
 - High percentage of young individuals.
 - Low percentage of old individuals
 - Moderate percentage of young individuals
- 6) Most of the inhabitants of caves have vestigial eyes because of _____.
- Absence of light
 - Presence of light
 - Absence of salinity
 - None of above
- 7) The highest mean plant productivity is found in _____.
- Tropical rain forest
 - Tundra
 - Desert
 - Temperate grass land
- 8) Human population growth curve is a _____.
- S- shaped
 - Zig – zag shaped
 - J – shaped
 - Parabola
- 9) A long rectangular sample plot is _____.
- Quadrat
 - Strip
 - Transect
 - None
- 10) The phenomenon in which some plankters shows changes in body form with the season of the year called as _____.
- Metalimnion
 - Cyclomorphosis
 - Epilimnion
 - All of above