

**B.Sc. ZOOLOGY
SECOND SEMESTER
ECOLOGY
BSZ-202**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

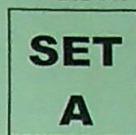
Time: 15 mins.

Marks: 10

Choose the correct answer from the following:

$$1 \times 10 = 10$$

- Sulphur dioxide, a primary constituent of naturally occurring pollutant can come into atmosphere from:
 - Deep oceans
 - Volcanoes
 - Forest detritus
 - None of the above
 - Acid deposition is caused due to:
 - HNO_3
 - H_2CO_3
 - H_2SO_4
 - None of the above
 - The process of nitrification can be better described as.....
 - Conversion of ammonia to nitrite
 - Conversion of nitrite to nitrate
 - Conversion from ammonia to nitrate
 - All of the above
 - Which among these is not a part of basic concepts of ecology?
 - Succession
 - Holism
 - Community
 - Ecosystem
 - Organic matter in excess of the respiratory utilization is called:
 - Net primary productivity
 - Total primary productivity
 - Gross primary productivity
 - None of the above
 - Which of the following is a continuing cause of succession?
 - Migration
 - Volcanic eruption
 - Flood
 - All of the above
 - Which of the following is a initiating cause of succession?
 - Earthquake
 - Volcanic eruption
 - Flood
 - All of the above
 - Number of individuals divided by per unit habitat space is called as:
 - Density
 - Crude population density
 - Ecological density
 - Population density
 - Which of the following is keystone species?
 - Elephant
 - Pygmy hog
 - Deer
 - Wild boar



10. Individualistic concept was forwarded by:

- | | |
|-------------|-----------|
| a. Clements | b. Glyson |
| c. Linneaus | d. Odum |
- --- --

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Define ecosystem with at least two elaborate examples. 5
2. Mention in details at least two different biogeochemical cycles along with flowcharts. 10
3. Explain about the different ecological pyramids with examples. 10
4. Define a population. Write about the different population characteristics. 10
5. What is ecological succession? Write about the causes and different types of ecological succession. 10

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