

2021
ZOOLOGY
(Honors)
Paper: ZOO-HC-1026
(Principles of Ecology)
(Theory)

The figures in the margin indicates full marks for the questions

Time: **Full Marks: 30**

1. Choose the correct answer **1x4=4**

a) The successful establishment of species in a new area is known as-

- | | |
|--------------|---------------|
| (i) Climax | (ii) Sere |
| (iii) Ecesis | (iv) Invasion |

b) Which of the following structure can be seen in the diminishing population?

- | | |
|-------------------|-----------------|
| (i) Upright | (ii) Inverted |
| (iii) Bell-shaped | (iv) Urn-shaped |

c) Which of the following defines the separation of two different communities?

- | | |
|-------------|------------------|
| (i) Ecotone | (ii) Edge effect |
| (iii) Ecade | (iv) Resistance |

d) Which of the following survivorship curve is seen in human

- | | |
|----------------|-----------------------|
| (i) Type I | (ii) Type II |
| (iii) Type III | (iv) Type I & Type II |

2. Differentiate between **2x2=4**

- a) K-selected and r-selected species
b) Exponential growth and Logistic growth

3. Write short note **2x2=4**

- a) Unitary and modular population
b) Density dependent and independent factor

4.What is ecological succession and describe its types and steps. **10**

5.Write a short note on biogeochemical cycle with example **8**

