Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16
End Semester Examination: Jan.2023
Faculty: Science and Technology

Program: BScGen03 **Semester: I** **SET: B**
Program (Specific): Zoology **Course Type: CC**
Class: F.Y.B. Sc **Max. Marks: 35**
Name of the Course: Ecosystem and its dynamics
Course Code: 22-ZO-112 **Time: 2Hrs**
Paper: II

Instructions to the candidate:

1) ***There are 4 sections in the question paper. Write each section on separate page.***
2) ***All Sections are compulsory.***
3) ***Figures to the right indicate full marks.***
4) ***Draw a well labelled diagram wherever necessary.***

SECTION: A

Q1) Define or Explain **5**

a) Define Community Characteristics.

b) Explain Aquatic Biome.

c) Explain Endangered Taxa.

d) Define Mortality.

e) Define Synecology.

Q2) Attempt any <u>four</u> of the following **4**

i. Define Grazing Food Chain.

ii. Explain Food Chain in Grassland ecosystem.

iii. Describe the term Inverted pyramids.

iv. Discuss about Species richness.

v. State Fischer's Principle.

vi. Write down any two biotic components of ecosystem

SECTION: B

Q3) Write note on any <u>four</u> of the following **8**

a) Enlist and describe different Indian biodiversity hotspots.

b) Write a short note on concept of Natality

c) Sketch and label Stratification of Lakes.

d) Explain concept of Food Web.

e) Discuss Logistic growth in population.

SECTION: C

Q4) Attempt any <u>four</u> of the following **8**

i. Describe Species Diversity.

ii. List the examples and describe population characteristics.

iii. Explain abiotic and biotic factors of freshwater ecosystem.

iv. Explain the concept of Species diversity.

v. What are Non Gaseous Cycles? Enlist with examples.

vi Distinguish between In-situ and Ex-situ methods of biodiversity conservation.

SECTION: D

Q5 Attempt any <u>two</u> of the following **10**

1. Describe Nitrogen cycle with a suitable diagram.

2. Explain Pyramid of biomass.

3. Describe various community characteristics.

4. Describe Measures for conservation of biodiversity.