

PG CBCS
M.Sc. Semester-I Examination, 2022
GEOGRAPHY
 PAPER: GEO 104
 (ENVIRONMENTAL GEOGRAPHY AND ECOLOGICAL PLANNING)
Full Marks: 40 **Time: 2 Hours**

Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

GEO 104.1: FOUNDATION IN BIOGEOGRAPHY AND ENVIRONMENT

Marks: 20

GROUP-A

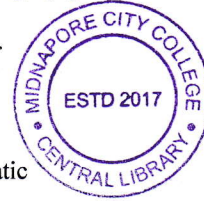
1. Answer any **ONE** question: 1×8=8
- a) Explain the nature of man-environment relationship in Indian Sundarban.
 - b) Classify India into biogeographic zones and elucidate any one of them.

GROUP-B

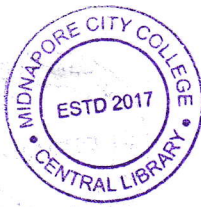
2. Answer any **TWO** questions: 2×4=8
- a) Examine the role of lithosphere as an environmental factor.
 - b) What are the major components of population dynamics?
 - c) How does water impact an ecosystem?
 - d) Assess the eco-physiological adaptation techniques of aquatic habitats.

GROUP-C

3. Answer any **TWO** questions: 2×2=4
- a) What do you mean by environmental complex?
 - b) What is National Environmental Tribunal Act?
 - c) Distinguish National Parks from Sanctuaries.
 - d) What is meant by keystone species?



P.T.O.



(2)

GEO 104.2: LANDSCAPE ECOLOGY & PLANNING

Marks: 20

GROUP-A

1. Answer any ONE question: 1×8=8

- a) Give a brief account on the principles and components of landscape ecology with its spatial importance.
- b) Critically assess the impact of agricultural intensification and development in modification of landscape.

GROUP-B

2. Answer any TWO questions: 2×4=8

- a) Elucidate the importance of GIS techniques in landscape planning.
- b) Briefly discuss the importance of patch and corridor as components of landscape ecology.
- c) What factors are responsible for fragmentation of landscape?
- d) Describe the role of TEK in conserving landscape.

GROUP-C

3. Answer any TWO questions: 2×2=4

- a) What is Shannon Diversity Index?
- b) Define Xeriscape.
- c) What do you understand by dynamics in landscape?
- d) What is meant by True Extinction?
