

2022

1st Semester Examination

GEOGRAPHY

Paper : GEO 104

Full Marks : 40

Time : Two Hours

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

Paper : 104.1

(Foundations in Biogeography and Environment)

Group - A

Answer any *two* of the following questions : $2 \times 2 = 4$

1. Comment on the anthropogenic impact on aquatic ecosystems.
2. What is biomagnification?
3. Mention the factors leading to rarity, vulnerability and extinction of species.
4. Define flagship species.

P.T.O.

Group - B

Answer any *two* of the following questions : $4 \times 2 = 8$

5. Explain the factors of ecological tolerances and amplitude.
6. Elucidate Eco-physiological adaptation of xerophytic plants in arid and semi-arid environments.
7. Make a comparison between the patterns of survival among the K and R selected species.
8. Identify the salient features of protected area network.

Group - C

Answer any *one* of the following questions : $8 \times 1 = 8$

9. Give an account on the different factors of ecosystem and their relationships. Use suitable diagram in support of your answer.
10. Describe the status of biodiversity in the major biogeographic zones of India.

Paper : 104.2

(Landscape Ecology and Planning)

Group - A

Answer any *two* of the following questions : $2 \times 2 = 4$

1. Differentiate extinct species from endangered species. Give example.

2. What is the concept of sustainable landscape?
3. Explain the role of TEK in conserving landscape.
4. Define landscape mosaic with proper example.

Group - B

Answer any *two* of the following questions : $4 \times 2 = 8$

5. Enumerate the methodology to calculate Shannon Diversity Index with suitable example.
6. Identify the ecological role of landscape corridors.
7. Mention the role of keystone species in a habitat.
8. Elucidate the relevance of landscape ecology for managing resources.

Group - C

Answer any *one* of the following questions : $8 \times 1 = 8$

9. Define Landscape and briefly discuss the structure of landscape and their role in characterizing the same.
 10. Critically assess the impact of anthropogenic activities which modify natural landscape. What is edge effect?
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