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PG (NEW) CBCS
M.Sc. Semester-I Examination, 2018
GEOGRAPHY
PAPER: GEO-104
(Environmental Geography)

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.

GEO104.1: Basics of Environment and Ecology

Marks: 20

GROUP-A

1. Answer any one question: **1×8=8**

a) Explain the major threats to biodiversity in Indian perspective with proper examples. **8**

b) Trace out the energy flow (taking any model) in an ecosystem with proper illustrations. **8**

Group-B

2. Answer any two questions: **2×4=8**

a) Write in brief about structure of agricultural ecosystem. **4**

b) Write about the function of producers, consumers and decomposers, in an ecosystem. **4**

c) Describe photosynthesis and respiration as two important-ecosystem processes. **4**

d) Distinguish between ex-situ and in-situ conservation methods of biodiversity. **4**

Group-C

3. Answer any two questions: **2×2=4**

a) Define trophic structure. **2**

b) Give any two examples of common symbiotic nitrogen fixing bacteria. **2**

c) List the four conceptual spheres in the earth's environment. **2**

d) What is ecosystem metabolism? **2**

(Turn Over)

GEO104.2: Landscape ecology and planning

Marks: 20

GROUP-A

1. Answer any one question: **1×8=8**

a) How anthropogenic modification control the landscape environment and what are the process of anthropogenic modifications? **5+3=8**

b) State the structure of Landscape with reference to patch-corridor-matrices model. **8**

Group-B

2. Answer any two questions: **2×4=8**

a) Outline implications of Sharron's diversity index in measuring habitat fragmentation. **4**

b) Narrate the roles of Keystone species in conserving ecosystem. **4**

c) What do you mean by TEK? What is the importance of TEK on conserving landscape? **4**

d) What do you mean by landscape dynamics? How do nutrients move among the landscapes? **4**

Group-C

3. Answer any two questions: **2×2=4**

a) What are the relationships among the structures of landscape? **2**

b) Differentiate extinct species from endangered species. **2**

c) What is Red data book? **2**

d) What are indicator species? **2**

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