

**2015**

**M.A./M.Sc.**

**1st Semester Examination**

**GEOGRAPHY**

**PAPER—GEO-104**

*Full Marks : 40*

*Time : 2 Hours*

*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.*

*Illustrate the answers wherever necessary.*

**Write the answer Questions of each Unit in separate books**

**Unit-VII**

*(Basics of Environment and Ecology)*

**Group—A**

**1. Answer any one questions from the following : 1×8**

(a) Explain the significance of *gaseous and sedimentary* nutrient cycles highlighting their role in any ecosystem.

(b) What do you know about agenda 21? Classify biodiversity at different scales of their occurrence.

2+6

*(Turn Over)*

**Group—B**

2. Answer any *two* from the following questions : 2×4
- (a) Define the terms ecological succession and climax vegetation. How do disturbances allow ecological succession? 4
  - (b) Delineate the factors that might cause microclimates to develop within an ecosystem. 4
  - (c) 'Materials move in cyclic order which flow of energy is unidirectional'— Elucidate.
  - (d) How are trophic levels related with food *chain* and food *web*?

**Group—C**

3. Answer any *two* from the following questions : 2×2
- (a) What is CBD? 2
  - (b) How do the xerophytic plants adapted themselves with the desert environment? 2
  - (c) Identify the characteristic features of agricultural system. 2
  - (d) Differentiate *species* diversity from *genetic* diversity.

**Unit-VIII**

(Agricultural Geography)

**Group—A**

1. Answer any *one* from the following question : 1×8
- (a) State the significance of institutional factors in agricultural development and elaborate the role of land reforms in revamping India's agrarian economy.
  - (b) Account for the changes in India's agricultural policies since independence in the background of population on growth, food security and food export.

**Group—B**

2. Answer any *two* questions : 2×4
- (a) Suggest the initiative taken by the Government to ensure increasing agricultural productivity and food security.
  - (b) Bring out the prospects of Extension and Intensification in Indian agriculture today.

- (c) What do you understand by dry farming system and what are the scopes of using minor-irrigation technologies in that system ?
- (d) Analyse the impact of Green Revolution technology from the ecological and environmental stand points.

**Group—C**

- 3.** Answer any *two* questions : 2×2
- (a) What do you understand organic farming ?
  - (b) In what ways Mixed Farming practice is different from Intensive Subsistence Farming ?
  - (c) Differentiate 'strip Cropping' from 'Cover Cropping'.
  - (d) What endogenous and exogenous factors are considered to decide cropping pattern of an agricultural region ?
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