

2016

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 question from the following : 1×8
- (a) Define biodiversity and state the importance of biodiversity in the present day context.
 - (b) Identify and discuss the role of biotic and abiotic elements in the functioning of environmental system.

(Turn Over)

Group—B

2. Answer any *two* questions from the following : 2×4
- (a) Bring out the structure of eco-system.
 - (b) Elaborate the processes of ecosystem with suitable diagrams.
 - (c) Explain the process of ecosystem metabolism in a grassland ecosystem.
 - (d) Distinguish between food chain and food web.

Group—C

3. Answer any *two* questions from the following : 2×2
- (a) Define CAM technique as adopted by desert plants.
 - (b) What do you understand by 'Key stone' or Flagship species ?
 - (c) What is the connotation of eco-system stability ?
 - (d) What are the consequences of habitat fragmentation ?

Unit-VIII**(Soil and Agricultural Geography)****Group—A**

1. Answer any *one* question from the following : 1×8
- (a) How food security issue in India dealt by agricultural production after Independence ?
 - (b) Considering geomorphic surfaces elaborate the soil-landscape relationships under different environments.

Group—B

2. Answer any *two* questions from the following : 2×4
- (a) Elucidate the developments of soil catena as a consequence of hydrological processes.
 - (b) Explain the principles followed in designating soil horizons.
 - (c) Briefly write down the different approaches to study agricultural geography.
 - (d) Highlight the provisions of land reforms against transformation of agricultural land to non-agricultural uses of land.

Group—C

3. Answer any *two* questions from the following : 2×2
- (a) What are the advantages of taxonomic classification of soils ?
 - (b) Differentiate oxidation from reduction.
 - (c) What is GM crops ?
 - (d) What is Agricultural Efficiency (AE) and how it is measured ?
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