2014

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 <u>separate books</u>

Unit–VII

(Basics of Environment and Ecology)

Group—A

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

   (a) Bring out the characteristic features of Tropical Rain Forest Ecosystem highlighting its components and their symbiotic relations.

   (b) Give a brief account of the intrinsic and instrumental value of biodiversity highlighting its significant in the present day context.

Group—B

2. Answer any *two* from the following questions : 4×2

   (a) How does *energy* pyramid differ from *biomass* pyramid ?

   (b) 'Plants and animals are generally well adapted to the biome in which they live'—Elucidate with suitable examples.

   (c) Enumerate the role of 'Ecosystem Resistance' in maintaining environmental balance.

   (d) Discuss in brief the ecological and climatological causes for species extinction.

Group—C

3. Answer any *two* from the following questions : 2×2

   (a) What is biological desert ?

   (b) Define the role of 'keystone species' in an ecosystem.

   (c) What do you understand by wilting point ?

   (d) What do you mean by 'ecosystem metabolism' ?

(Continued)

Unit–VIII

(Agricultural Geography)

Group—A

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

   (a) Elaborate Jonnason's theory of agricultural landuse and state its applicability in the context of Indian agricultural systems.

   (b) Differentiate crop combination from crop diversification and explain the factors determining the crop combination of a region.

Group—B

2. Answer any *two* questions :   4×2

   (a) What are the major institutional factors that determine the agricultural production and distribution in India ? Give suitable examples.

   (b) What are the factors of measuring Agricultural Efficiency (AF) of a region and what is AE indicator ?

   (c) How food security issue have partially been solved after the Green Revolution ?

(d) Outline the major agricultural policies and actions of India taken under Grow More Food Campaign.

Group—C

3. Answer any *two* questions :   2×2

   (a) What do you mean by precision farming ?

   (b) Differentiate Inter-cropping from Relay Cropping giving suitable examples.

   (c) What are GM crops and what are their significance in the context of countrywide food crisis ?

   (d) State the advantages and disadvantages of agricultural mechanisation in India.

———