

**2017**

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

**1st Semester Examination**

**GEOGRAPHY**

**PAPER—GEO-104**

**Subject Code—29**

*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) Give an account on the structure and functioning process of ecosystem with proper diagram.
- (b) What are the typologies of biodiversity ? State in brief the factors that threat biodiversity. 2+6

*(Turn Over)*

**Group--B**

2. Answer any two from the following questions : 2×4
- (a) Elucidate the characteristic features of manmade ecosystem with special reference to agricultural ecosystem.
  - (b) Mention the role of thermodynamics in ecosystem process.
  - (c) Briefly discuss the importance of estuarine ecosystem with special reference to Sundarbans.
  - (d) Why energy flow is called Unidirectional--Explain.

**Group--C**

3. Answer any two from the following questions : 2×2
- (a) Mention the factors that effect 'ecosystem stability'.
  - (b) What are the consequences of increasing BOD in water?
  - (c) Define pioneer community.
  - (d) What is Dystrophic lake?

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

1. Answer any *one* from the following questions : 1×8
- (a) What are the different challenges that have been addressed in New Agricultural Policy (NAP)? Give suitable examples from different parts of the country.
- (b) Explain the soil landscape analysis in relation to surface morphometry at Chhotanagpur Plateau.

**Group—B**

2. Answer any *two* questions : 2×4
- (a) How did National Food Security Act (NFSA) address the issue of food security in India?
- (b) How do institutional factors impact on availability and quality of the food grains?
- (c) Explain why soil catena varies in different environment?
- (d) What is the role of organic matter content in soil?

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**Group—C**

3. Answer any two questions : 2×2
- (a) Write a short note on ecological system in agriculture.
  - (b) Mention two points, Why Jonnason's theory on agricultural landuse is significant ?
  - (c) What is soil pH ?
  - (d) Mention the role of soil colours.
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