First Semester Examination-2017
M.Sc. GEOGRAPHY
Paper Code: GEO-103

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.

Unit-V
Climatology
Marks: 20
GROUP-A

1. **Answer any one question:**   1×8=8

a. Critically explain the recent theories of monsoon origin.

b. Explain with illustration the horizontal and vertical structure of a tropical cyclone..

GROUP-B

1. **Answer any two question:**   2×4=8

a. Bring out vertical stratigraphy of different climatic features in mountainous region.

b. Why sea surface temperature is important in global climate study?

c. What are the conditions requirements for thunderstorm?

d. Assess the role of El Nino for the occurrences of drought in S-E Asia.

GROUP-C

2. **Answer any two question:**   2×2=4

a. What is Saffir-Simpson scale?

b. What is walker circulation?

c. Mention the climatic significance of downdraft of wind.

d. Why is O^{16} considered as an effective indicator of past climate change?

UNIT- VI
Population Geography
Marks: 20
GROUP-A

1. **Answer any one question:**   1×8=8

a. Elucidate the development of population geography and its inter-disciplinary nature with suitable examples.

b. State the concept of Demographic Transition and state its social, political and economic impact.

GROUP-B

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

a. Elucidate any one method of population projection.

b. Critically discuss the different types of Age-Sex pyramid.

c. Analyze the causes of over population in developing countries with special reference to India.

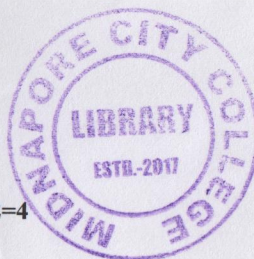d. Highlight the recent changes in India's population policies.

GROUP-C

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

a. What do you mean by population equilibrium?

b. Distinguish between population geography and demography.

c. What is crude literacy rate?

d. What is meant by population dividend?

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