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C/14/M.A./M.Sc./1st Seme./GEO-103

2013

M.A/M.Sc.

1st Semester Examination

GEOGRAPHY

PAPER—GEO-103

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-V

(Climatological Processes)

Group—A

1. Answer any one questions :

8×1

- (a) Explain the functioning of 'Climate of different System' Spatio-temporal scales.

(Turn Over)

- (b) Describe the ENSO phenomena with reference to Walker Circulation.

Group—B

2. Answer any two questions : 4×2
- (a) How is the energy budget of the earth-atmospheric system disturbed ?
 - (b) Explain the 'conditional instability' in relation to lapse rates.
 - (c) Elaborate the role of Coriolis Force in global circulation.
 - (d) Specify the characteristics of Rossby Waves.

Group—C

3. Answer any two questions : 4×2
- (a) What is 'Synoptic Climatology' ?
 - (b) How does energy flux of black body depend on its temperature ?
 - (c) What is the difference between 'fronts' and 'convergences' ?
 - (d) State the importance of 'Monsoon Trough'.

Unit-VI**(Population Geography)****Group—A**

1. Answer any *one* question : 8×1

- (a) Describe the different methods of explaining age composition and their importance in population studies.
- (b) Account for the various measures of fertility and their relation with biological and socio-economic factors.

Group—B

2. Answer any *two* questions : 4×2

- (a) How do characteristics of population retard over all development of a country?
- (b) Critically elucidate the concept "Under population".
- (c) Why does carrying capacity change over time?
- (d) Assess the nature of spatio-temporal variation of male-female ratio in India.

Group—C

3. Answer any *two* questions : 2×2
- (a) 'Development is the best contraceptive to population growth' — Explain.
 - (b) discuss the role of climatic hazards in controlling population size.
 - (c) Distinguish between absolute growth rate and zero growth rate of population.
 - (d) What do you mean by "Ecological Footprint" ?
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