

2017

**GEOGRAPHY**

*(Population Geography, Settlement Geography,  
Regional planning and Remote Sensing and  
Geographic Information System )*

[ Honours ]

PAPER -- VI

Full Marks : 90

Time : 4 hours

*The figures in the right hand margin indicate marks  
Candidates are required to give their answers in their  
own words as far as practicable*

*Illustrate the answers wherever necessary*

[ NEW SYLLABUS ]

GROUP -- A

[ Long -Answer Type Questions ]

( Turn Over )

Answer five questions, selecting one from each Unit (within 500 words) : 10 × 5

UNIT-I

1. Discuss the salient features of different sources of population data and the types of data provided by those sources. 4 + 6

Or

Describe the factors, that determine the sex ratio of India. 10

UNIT-II

2. Name the different measures of mortality. Critically evaluate the utility of different measures of mortality. 4 + 6

Or

Explain the socio-economic impact of migration on place of destination and origin. 5 + 5

UNIT-III

3. What do you mean by settlement system ? How are the patterns of rural settlement affected by the physical factors ? 2 + 8

*Or*

Evaluate the impacts of functional differentiation on growing population, and competition for space on urban morphology according to E.M. Burgess. 10

UNIT-IV

4. Elaborate the concept of region with different types and their salient features. 3 + 7

*Or*

Compare the advantages and disadvantages of centralised and decentralised planning. 10

UNIT-V

5. Illustrate the nature of energy interaction with major earth's surface features with the help of spectral signature curve. 10

Or

Elucidate, with example, the database management system in G.I.S. Give examples of point, line and polygon features that could be registered in G.I.S. layers. 7 + 3

GROUP - B

[Semi-Long -Answer Type Questions ]

Answer five questions, selecting one from each Unit (within 250 words): 4 x 5

UNIT-I

6. Differentiate between population geography and demography. 4

*Or*

Distinguish between Primary Sex Ratio,  
Secondary Sex Ratio and Tertiary Sex Ratio. 4

UNIT—II

7. Discuss the advantages of Age Specific Birth Rate over General Fertility Rate. 4

*Or*

What are the indices for calculating HDI and GDI? 4

UNIT—III

8. Describe the size-class distribution of urban settlement citing examples from West Bengal. 4

*Or*

Mention the favourable conditions for the growth of primate city pattern. 4

UNIT-IV

9. Differentiate economic planning from environmental planning. 4

*Or*

Briefly discuss the role of Panchayati Raj on rural regional planning. 4

UNIT-V

10. Differentiate between raster data and vector data. 4

*Or*

Compare the significant uses of Geostationary and Sun-synchronous Satellites. 4

**GROUP - C****[Short -Answer Type Questions ]****Answer any ten questions, selecting  
from the following (within 50 words) : 2 × 10**

- 11. When is negative population growth experienced ? 2**
- 12. Distinguish between population distribution and population density. 2**
- 13. What kinds of information are obtained from an age-sex pyramid ? 2**
- 14. Analyse the position of India in the Demographic Transition Model. 2**
- 15. With examples differentiate between site and situation of a settlement. 2**
- 16. Define urban area according to census of India. 2**

17. What is Gravity Model ? 2
  18. What are the significant characteristics of C.B.D. ? 2
  19. What do you mean by administrative town ? 2
  20. What is regional hierarchy ? 2
  21. Write four principles of regional planning. 2
  22. Which bands in the EMR spectrum are more useful in Remote Sensing purpose ? 2
  23. When in Remote Sensing a colour composition is known as false ? 2
  24. What are atmospheric windows ? 2
  25. Differentiate spatial and spectral resolution. 2
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