2019

2019   MSC(O)/GG-I/19

GEOGRAPHY

PAPER-1

Time Allowed — 3 Hours

Full Marks — 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

*Answer may be given either in **English** or in **Bengali**. But all the answers must be in one and same language.*

Illustrate your answers with suitable sketches and diagrams.

*Answer **any five** questions, taking at least **two** from each group.*

Group-A

1. Compare the characteristics of boreal and temperate forest ecosystem. State how cybernetics helps in the process of homeostasis. Mention how overgrazing causes degradation of land resource.
   20+10+10=40

2. Discuss the fundamental common properties of Polar Zenithal projections. Classify maps according to scale and purpose. What is vector data structure? 20+12+8=40

3. Mention the different conditions that are favourable for the growth of coral reefs. Account for the surface ocean currents of the Atlantic ocean with illustrations. 26+14=40

4. Discuss the theory of Isostasy as put forwarded by Sir George Airy. Illustrate the fundamental concept of 'The same physical processes and laws that are operate today operated through out geological time, although not necessarily always with the same intensity as now'. Mention the basis of Davision model of 'Geographical Cycle'. 22+12+6=40

5. Explain the conditions required for the formation of tropical cyclones. State how airmass modifications take place by thermodynamic processes. What is Hadley cell? 20+12+8=40

Group-B

6. Critically illustrate Rimland theory as put forwarded by Spykman. Distinguish between absolute and relative space. 28+12=40

7. Describe the characteristics of extensive commercial farming in temperate lands. Mention the major problems of hydel power generation in India. Distinguish between tangible and non tangible resources. 22+10+8=40

8. Illustrate 'multiple nuclei' model of urban growth. Discuss the characteristics of CBD. What is primate city? 22+12+6=40

9. Explain the factors that influence migration of population. Discuss the importance of sex-ratio for population analysis and development of a country. 24+16=40

10. Briefly discuss the Growth Pole theory of Perroux. Classify planning regions on the basis of regional hierarchy. 28+12=40

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