

Geography Optional, 2026

Paper I

SECTION 'A'

1. Answer the following in about 150 words each:
 - a. What is 'Helical' flow? How Helical flow accounts for meander modifications? (10 Marks)
 - b. Define 'pseudo monsoon' and explain its spatial distribution. (10 Marks)
 - c. How are seamounts and Guyots the same and different? Comment. (10 Marks)
 - d. How a 'Solum' as a concept different from 'Pedon'? Describe. (10 Marks)
 - e. With suitable examples describe the hazards of flood plain settlement. (10 Marks)
2.
 - a. "Environmental geomorphology deals with the impact of natural landforms and processes." Elucidate with suitable examples. (20 Marks)
 - b. Discuss the potential consequences of the collapse of the Atlantic Meridional Overturning Circulation (AMOC) for the world. (15 Marks)
 - c. "Overgrazing has become an alarming situation of bioloss in many bio-geographical regions of the world." Illustrate with examples. (15 Marks)
3.
 - a. Describe the general characteristics and structure of a thunderstorm and suggest suitable classification of thunderstorm. (20 Marks)
 - b. Anthropogenic impacts have caused major global and regional changes and imbalances in ecosystem. Elucidate with examples. (15 Marks)
 - c. What is scarification? List out various impacts and examples of scarification on land. (15 Marks)
4.
 - a. How does the annual variations in temperature and precipitation influence plants growth, development and distribution? How do animals cope up with variations in climate? (20 Marks)
 - b. Examine the importance of axis of dilation of airmasses in frontogenesis and the origin of Temperate cyclones. (15 Marks)
 - c. Construction of large dams poses serious challenges. Describe the threats and solutions associated with it. (15 Marks)

SECTION 'B'

5. Answer the following in about 150 words each:
 - a. "Systematic Geography is essentially analytical and makes generic concepts and Universal Laws." Elucidate with examples. (10 Marks)
 - b. Critically examine the significance of five functioning forms with regard to agricultural regions of the world proposed by D. Whittlesey. (10 Marks)
 - c. "The majority of migrants go only a short distance." Explain with examples. (10 Marks)

- d. "Sustainable development requires Intergenerational and Intragenerational equity." Comment with examples. (10 Marks)
 - e. "Under what situations Von Thunen's model of agricultural location is still rational." Justify with examples. (10 Marks)
- 6.
- a. Discuss the Geometry of Land Values in Urban Community and delimiting the Central Business District (CBD) in detail. (20 Marks)
 - b. Analyse the measuring patterns of settlement in relation to the nearest Neighbour Index and Rank-Size-Rule in detail. (15 Marks)
 - c. Write an essay on disease and global warming according to the report of Intergovernmental Panel on Climate Change (IPCC). (15 Marks)
- 7.
- a. What are the main concerns of radical geography? Describe the salient features and objectives of radicalism in geography. (20 Marks)
 - b. Discuss agricultural productivity and techniques adopted for computing efficiency in the levels of agricultural productivity. (15 Marks)
 - c. Elaborate partition of Indian subcontinent and international migration in detail. (15 Marks)
- 8.
- a. What are the principles of urban planning? Critically analyse town planning in India in the post independence period. (20 Marks)
 - b. What are the approaches of human development? Describe in detail the measures for computing human development index. (15 Marks)
 - c. Explain the Rimland Theory with reference to ongoing geopolitical scenario in the world. (15 Marks)