

### **GEO-H-DSC-1-01-TH**

- 1) Critically examine the theory of Isostasy as propounded by Pratt and Airy. How do the later theories of Isostasy differ from the earlier theories?
- 2) What is the significance of the geological time scale in understanding the nature of the present day landforms?
- 3) Give a critical review of the theory of plate tectonics.
- 4) What do you mean by diastrophic events? Given an account of the various landforms developed by the volcano.

### **GEO-H-DSC-1-02-TH**

- 1) Define the term geomorphology. Write a short note on scope and content of the discipline.
- 2) "Present is the key to the past" explain
- 3) What do you mean by normal cycle of erosion? Given a critical account of the cycle of erosion as postulated by Davies.
- 4) Explain briefly the Penck's cycle of erosion. Explain how Penck's cycle of erosion is the critique of the Davisian cycle.
- 5) Give a detailed account of the evolution of landforms in a Karst region.
- 6) Make a comparative analysis of evolution of slopes as envisioned by Hack and King.

### **GEO-H-DSC-2-03- H**

- 1) Explain how environmental determinism helped in justifying colonialist and imperialistic tendencies in Europe.
- 2) "There are no necessities but everywhere possibilities" explain this statement as a response to extreme emphasis on the importance of the role of nature.
- 3) Explain the influence of geographies on different languages and dialects.
- 4) What effects do overlapping of cultural contours and cultural realms have over the landscape.
- 5) What are the effects of overpopulation?
- 6) Give a critical review of the Demographic Transition Theory.

### **GEO-H-DSC-2-04-TH**

- 1) Explain how agricultural revolution led to transitioning of the settlements from rural to urban.
- 2) Do you think that the ecological approach that focuses on invasion and succession of space is the correct model to explain urban growth?
- 3) Discuss how the patterns of urban growth have been changing post economic liberalization.
- 4) Explain how caste and religion affect village form and lay out in India.

#### **GEO-H-DSC-3-05-TH**

- 1) How did quantitative revolution in geography affect the study of climatology by geographers?
- 2) Compare and contrast the thermal inversion theory of monsoon from the orographic origin.
- 3) Critically explain the climatic regions of Koppen.
- 4) Write a brief note on the increasing incidence of cyclones in the Bay of Bengal in the recent years.

#### **GEO-H-DSC-3-06-TH**

- 1) Why do you think that statistics is necessary for spatial sciences?
- 2) What do you mean by sampling techniques? Write a short note on stratified random sampling.
- 3) What do you mean by correlation? Discuss the circumstances under which rank size correlation is suitable than product moment correlation.

#### **GEO-H-DSC-3-07-TH**

- 1) Divide India into broad physiographic divisions. Give an account of the Northern Mountains.
- 2) Explain why black soil is abundantly found in the Deccan region.
- 3) Classify Indian vegetation into different zones as stated by Champion and Seth.
- 4) Give an account of distribution of Coal in India.
- 5) What do you mean by schedule tribe? Discuss the major policies that have been framed by the Government of India to include the schedule tribes into the mainstream.

#### **GEO-SEC-A-3-01-TH**

- 1) Discuss the various elements of rural development.

- 2) Do you think that the Gandhian model of village development can work as a sustainable development model in the contemporary times?
- 3) What is Jan Dhan Yojna? Discuss the role of Jan Dhan Yojna as an instrument of financial empowerment.
- 4) Explain why Panchayati Raj System is important in strengthening democratic values and system at the grass root level.
- 5) What are the advantages of using target group approach and focused group approach in the implementation of different intervention programmes to remove regional imbalances.

#### **GEO-SEC-A-4-02-TH**

- 1) Briefly explain the geographical elements of tourism by Robinson.
- 2) Discuss the different types of tourism.
- 3) Critically discuss the recent trends in domestic tourism.
- 4) Discuss briefly the national tourism policy of India.
- 5) Briefly discuss the impacts of ecotourism.

#### **GEO-H-DSC-5-11-TH**

- 1) Explain the scope and concept of environmental geography.
- 2) Describe the human adaptation in tundra biome.
- 3) Briefly explain the problems in tropical and temperate ecosystems.
- 4) Define ecosystem. Describe the structure and function of ecosystem.
- 5) Elaborate the environmental programmes and policies of India.

#### **GEO-H-DSC-5-12-TH**

- 1) Define remote sensing. Write down its components.
- 2) Explain the principles, types and geometry of Ariel photography.
- 3) Write down the types of GIS data structures. Differentiate between raster and vector data.
- 4) Analyze the importance of Remote sensing in the Land use change study.

#### **GEO-H-DSE-5-01-TH**

- 1) Mention the population dynamics along with its determinants.
- 2) Critically discuss the Malthusian theory of Population growth?

- 3) Discuss the nature and scope of population geography with special reference to INDIA.
- 4) What do you mean by population composition? Write down the importance.
- 5) Explain the importance of rural and urban composition with special reference to India

#### **GEO-H-DSE-5-01-TH**

- 1) What is the need for functional classification of cities?
- 2) Discuss the nature and scope of urban geography
- 3) Differentiate between qualitative and quantitative methods of cities?
- 4) Discuss the housing condition of Slums in the Urban Centres of North Bengal?
- 5) Discuss the pattern of urbanization in developing and developed countries.

#### **GEO-H-DSC-6-13**

- 1) Trace the development of geography during the classical period.
- 2) Explain how the period of discovery and exploration led to rapid growth in geographical study.
- 3) Explain how the hegemonic structuring around the space leads to exclusion of the others.
- 4) Critically examine how colonialism and imperialism goes hand in hand with cultural determinism.
- 5) What is geography of gender? Explain why understanding of the economic landscape from the feminist perspective is important for the social change.

#### **GEO-H-DSC-6-14**

- 1) Define hazard. Differentiate between hazards and disasters.
- 2) State how landslide vulnerability assessment report is prepared.
- 3) What are industrial disasters? What is the significance of Bhopal gas tragedy?
- 4) State how flood vulnerability report is prepared by Fuzzy Logic and state its advantages and disadvantages.
- 5) "Assessment of disasters and hazards conducted by only scientific principles devoid of any humanistic principles is incomplete". Explain why human perspective study is vital for mitigation of various disasters.

**GEO-H-DSE-6-03**

- 1) Differentiate between the Nation and the State.
- 2) Critically explain the Heartland theory of Mackinder.
- 3) Write a short note on Cauvery water dispute.
- 4) Do you think that the people displaced by economic development projects in the interest of the nation have right to protest against it?

**GEO-H-DSE-6-03**

- 1) Why do you think that study of social geography of India is important for the students of geography?
- 2) Explain the impact of technology and communication in the social fabric of rural India.
- 3) What do you mean by well being? Explain the different components of quality of life.
- 4) Explain how ontology has accelerated the process of exclusion of the weaker sections in the society.
- 5) What is immigration? State the recent trends of migration in India.