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Total number of printed pages—5

IX-VI-VII-CT.12

GEOGRAPHY

1997

First Paper

Full Marks—200

Time : Three hours

*The figures in the right margin indicate full marks for the question
Attempt to answer very concisely incorporating relevant
terms/expressions in each of the questions.*

1. Describe the internal structure of the earth with special reference to seismic evidence. 10+5=15
2. Name atleast three important theories concerning the mountain building. Discuss *any one* theory with critical assessment. 3+12=15
3. Write short notes on *any three* of the following. Each answer should be within 150 words. 5×3=15
 - (a) Cyclic concept in Geomorphology.
 - (b) Mechanical Weathering
 - (c) Classification of land forms
 - (d) Geosyncline
 - (e) Rejuvenation
 - (f) Zone of subduction

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Contd.

4. What is an air mass? Attempt a classification of the air masses of the world with a description of salient features of each class. 3+12=15
5. What are the bases of the vertical zonation of the atmosphere? Describe each layer by indicating the important characteristics. 2+8=10
6. Discuss the sources and nature of various types of deposits found on the floor of the oceans. 15
7. Give a brief account on salinity and temperature distribution of ocean water. 10

Or

- What are the different types of coral reefs? Describe the processes of the formation of reefs. 3+7=10
8. What is an Ecosystem? Describe the flow of energy into different components of an ecosystem with a schematic diagram. 3+12=15
 9. Describe briefly the major soil forming processes and attempt a classification of soils. 5+10=15
 10. Give a brief account on modern trends and thoughts in Human Geography. 10
 11. Explain each within 150 words.
Attempt *any two* of the following: 5×2=10
 - (a) Environmental determinism
 - (b) Region as a cultural entity.
 - (c) Method of analysing settlement patterns.
 - (d) Factors affecting the growth of population.

12. What are the geo-economic conditions for establishment of hydro-electric power project? Examine the conditions with special reference to the hydro-electric power potential in N.E. India. 10

13. List the major factors of localisation of industries. Discuss Weber's theory of industrial location in the context of iron and steel industries in India. 4+6=10

14. Answer the following very briefly: 1×15=15

(i) Which country/region of the world is the leader in coffee production?

(ii) Name the country with the largest railway network in the world.

(iii) Which mode of transportation is the cheapest?

(iv) Which mineral resource of Meghalaya has the largest reserve in India?

(v) Name of the chief milk producing nations of European continent.

(vi) Which country in the world is the major exporter of wheat?

(vii) Draw figures only to illustrate the major settlement types.

(viii) What is p^H ?

(ix) Identify the areas within monsoon climates in Africa.

- (x) Specify the major cotton producing areas in India.
- (xi) Name the third most populous country in the world after China and India.
- (xii) What is nomadism?
- (xiii) Identify atleast two countries with intensive agriculture.
- (xiv) Name atleast two models of urban land use structure.
- (xv) Mention atleast two economic activities of the people in Equatorial region.

15. Answer *any ten* of the following 2×10=20

- (a) Who is the propounder of the concept of Normal Cycle of Erosion? Name a follower of his ideas.
- (b) What is uniformitarianism?
- (c) Name atleast four major constituent elements of the earth's crust.
- (d) Give one example each of intrusive and extrusive igneous rocks.
- (e) What is exfoliation?
- (f) Identify the two important geomorphic features found in the lower reaches of a river.
- (g) Name atleast two geomorphic features that are developed in old stage of glacial cycle of erosion.

- (h) Write down the names of atleast two important rift valley areas of the world.
- (i) Define relative humidity.
- (j) What is a biome? Give Example.
- (k) Name atleast two zoogeographical regions of the world.
- (l) Mention the areas of concentration of pelagic oozes.
- (m) Name two species of plant that grow in desert biome.
- (n) Draw a diagram to illustrate the front.
- (o) Write down the mathematical expression to denote aridity index.