



WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours PART-I Examinations, 2018

GEOGRAPHY-HONOURS

PAPER-GEOA-I

Time Allotted: 4 Hours

Full Marks: 100

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.*

Group-A

GEOTECTONICS

Category-I

Answer any **one** question from the following within 600 words 10×1= 10

1. Discuss the structure of the earth's interior as revealed by seismological studies. 10
2. Explain the tectonic events and the associated landforms experienced along the convergent plate boundaries. How are transform faults formed? 7+3

Category-II

Answer any **four** questions from the following within 150 words each 5×4 = 20

3. What do you understand by "level of compensation" in the context of isostasy? 5
4. Explain in brief the formation of island arcs. 5
5. Briefly discuss the characteristics of conservative plate boundaries. Give suitable examples to support your answer. 4+1
6. Discuss the geologic and geomorphic events of the carboniferous period. 5
7. Distinguish between central eruption and fissure eruption with appropriate examples. 5
8. Give a brief explanation about paleo-magnetism as an evidence of Sea Floor Spreading. 5
9. Explain the formation of triple junction. 5

Group-B

GEOMORPHOLOGY

Category-I

Answer any **two** questions from the following within 600 words each 10×2 = 20

10. What is mass wasting? Give an account of the slow processes of mass wasting with the help of suitable diagrams. 10
11. Explain the evolution of drainage and resultant landforms on folded structure with suitable diagrams. 10

12. Discuss the different processes of glacial erosion. Explain with diagrams the various erosional landforms produced by valley glaciers. 3+7
13. Give a detailed account of the Dynamics Equilibrium Theory of landscape evolution as proposed by J.T. Hack. 10

Category-II

Answer any *four* questions from the following within 150 words each 5×4 = 20

14. What is meant by deep chemical weathering? Why is it predominant in the humid tropical region? 2+3
15. Distinguish between granular disintegration and block disintegration. 5
16. Explain the formation of tors in a granitic region. 5
17. Differentiate between 'fault scarp' and 'fault line scarp'. 5
18. Discuss the process of delta formation. 5
19. How are obsequent streams different from resequent streams? 5
20. Explain how beaches are formed along depositional coasts.

Group-C

HYDROLOGY AND OCEANOGRAPHY

Category-I

Answer any *one* question from the following within 600 words 10×1 = 10

21. Discuss the different phases of runoff cycle with suitable diagrams. 10
22. Discuss the factors influencing salinity distribution in oceans. Explain the significance of the T-S diagram. 7+3

Category-II

Answer any *four* questions from the following within 150 words each 5×4 = 20

23. Explain how vegetation influences surface runoff.
24. How can climate change influence global hydrological cycle?
25. What are the factors influencing fluctuation of ground water table?
26. How are springs formed?
27. Explain how ocean currents influence temperature distribution of ocean water.
28. Classify marine sediments according to depth.
29. What are the major solutes in ocean water?

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Group-A

Economic Geography

Category-I

Answer any *two* questions from the following within 600 words each 10×2 = 20

1. What do you understand by resource perception? Explain how economic approaches to resource perception differs from the environmental approaches.
2. What do you mean by a foot loose industry? Discuss the factors responsible for decentralization of cotton textile industries in India.
3. Critically evaluate Gunnar Myrdal's theory of circular and cumulative causation in the present day context.
4. Why is fishing both a primary and secondary activity? Why is commercial fishing more developed in temperate regions than in tropical regions?

Category-II

Answer any *eight* questions from the following within 150 words each 5×8 = 40

5. Identify the future prospects of petro-chemical industries in Gujarat-Maharashtra region.
6. Explain briefly the terms isotim, isodapane and critical isodapane.
7. How is the level of economic development of third world countries ascertained by the pattern of economic activities?
8. Explain briefly the role of technology in the creation of resources.
9. Discuss the major features of intensive rice cultivation.
10. Suggest measures to mitigate sickness of paper industry in West Bengal.

11. Why is Japan much more advanced in Iron and Steel industry than India?
12. Mention the major problems of tea plantation in India and suggest suitable measures to combat the problems.
13. What do you understand by 'utility' and 'functionability' of resources?
14. Assess the importance of resource recycling in respect of resource sustainability.
15. 'Switch over to non-conventional resources for sustainability' — Discuss.

Group-B

Population Geography

Category-I

Answer any *two* questions from the following within 600 words each 10×2 = 20

16. Why is population regarded as a resource of a country? How can human resource be optimized to improve productivity and level of development?
17. Explain Malthusian theory and state its limitations.
18. Discuss the causes and effects of migration with special reference to India.
19. Explain Marx's theory and discuss the relevance of this theory in the present day context.

Category-II

Answer any *four* questions from the following within 150 words each 5×4 = 20

20. Briefly discuss the linguistic composition of India.
21. When does negative population and population explosion take place?
22. What are the impacts of dependent population on the economic status of a country?
23. What is the impact of female literacy over infant mortality?
24. Distinguish man-land ratio from population density.
25. What is the relation between poverty and fertility?
26. What is the significance of age-sex pyramid in socio-economic development of a country?

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