



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours Part-I Examination, 2021

GEOGRAPHY

PAPER: GEOA-I

Time Allotted: 2 Hours

Full Marks: 50

*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 in detail the evidences in support of the Continental Drift theory as put forward by A. Wegener with necessary diagrams. Mention the chief objections to this theory. 7+3
2. Discuss critically the views of Sir George Airy and J. H. Pratt in relation to isostasy. 10

CATEGORY-II

Answer any *two* questions from the following within 150 words each

5×2 = 10

3. Discuss the major geologic and geomorphic events of the Eocene period.
4. Explain the formation of Himalayas in the light of plate tectonics.
5. Explain the presence of the “Pacific Ring of Fire” in the context of Plate Tectonics.
6. Describe the nature and composition of Core.
7. Explain normal and reverse magnetism in light of Seafloor Spreading.
8. Describe the characteristics of oceanic crust and continental crust.
9. Distinguish between plate destruction and plate construction.

GROUP-B

GEOMORPHOLOGY

CATEGORY-I

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

10. Discuss the processes of mechanical weathering with illustrations. 10
11. Trace the evolution of landforms and drainage in a region of uniclinal structure with suitable sketches. 8+2
12. Discuss critically the fluvial cycle of erosion as proposed by W. M. Davis, with necessary diagrams. 10
13. State the processes of coastal erosion. Describe the landforms produced by coastal erosion with diagrams. 3+7

CATEGORY-II

Answer any *one* question from the following within 150 words each 5×1 = 5

14. Differentiate between hydration and hydrolysis.
15. Describe the fluvio-glacial depositional features with diagrams.
16. Explain the formation of inversion of topography on folded structure.
17. Describe the typical landforms found in Granitic regions.
18. Distinguish between fault scarp and fault-line scarp.
19. Distinguish between soil creep and solifluction.
20. Describe in brief the concept of 'base level' of erosion.

GROUP-C

HYDROLOGY AND OCEANOGRAPHY

CATEGORY-I

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

21. Discuss the various factors influencing the recharge and discharge of ground water. 10
22. Classify ocean sediments according to their origin and describe each type. 10

CATEGORY-II

Answer any *one* question from the following within 150 words each

5×1 = 5

23. Why is the salinity of Red Sea more than the Baltic Sea? Explain.
24. Discuss the formation of Artesian well with a diagram.
25. How does urbanisation affect surface runoff?
26. What is meant by global hydrological cycle?
27. Describe T-S diagram and mention its use.
28. Classify springs and describe any two with diagram.
29. Differentiate between confined and unconfined aquifers.

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

—×—