



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours Part-I Examination, 2020

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. Elucidate the structure and composition of the earth's mantle and core with reference to seismological evidences. Define shadow zone. 8+2
2. Explain the tectonic movement and resultant landforms at Convergent Plate boundaries. Give suitable examples. 8+2
3. With suitable diagrams explain the evidences in support of the theory of Sea Floor Spreading. What do you mean by jig-saw-fit? 8+2

CATEGORY-II

Answer any two questions from the following within 150 words 5×2 = 10

4. Explain the concept of "mountain root" in relation to the theory of isostasy by Airy. 5
5. Briefly describe the main characteristics of the Carboniferous Period. 5
6. Mention the causes responsible for volcanic eruption. 5
7. Describe the meaning and concept of geosynclines. 5

GROUP-B

GEOMORPHOLOGY, HYDROLOGY AND OCEANOGRAPHY

CATEGORY-I

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

8. Describe the processes of glacial erosion. Explain with suitable diagrams the erosional landforms produced by glaciers. 3+7

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| 9. | Describe and classify faults mentioning the basis of your classification. What is recumbent fold? | 8+2 |
| 10. | Discuss the different phases of runoff cycle with suitable diagrams. | 10 |

CATEGORY-II

Answer any *four* questions from the following within 150 words

5×4 = 20

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| 11. | Explain the formation of cuesta with diagrams. | 5 |
| 12. | How do interruptions occur in a normal cycle of erosion? | 5 |
| 13. | Differentiate soil creep from mud flow. | 5 |
| 14. | Briefly explain the factors influencing infiltration. | 5 |
| 15. | Describe the formation of artesian wells with a diagram. | 5 |
| 16. | Describe the characteristics of lithogenous marine sediments. | 5 |
| 17. | Differentiate between porosity and permeability. | 5 |

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.*

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