



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 1st Semester Examination, 2019

GEOACOR01T-GEOGRAPHY (CC1)
GEOTECTONICS AND GEOMORPHOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

CATEGORY-A

Answer any *one* question from the following within 600 words

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| | 10×1 = 10 |
| 1. Elucidate the structure and composition of the earth's mantle and core with reference to seismological evidences. Define level of compensation. | 8+2=10 |
| 2. What do you mean by degradational processes? Discuss the various processes of mechanical weathering and the resultant landforms with the help of suitable diagrams. | 2+8=10 |

CATEGORY-B

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

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| | 5×4 = 20 |
| 3. Briefly discuss the theory of isostasy as proposed by Airy. | 5 |
| 4. Differentiate between isoclinal fold and recumbent fold with suitable diagrams. | 5 |
| 5. Discuss the formation of island arcs in the light of Plate tectonics. | 5 |
| 6. Explain how tors are formed in granitic area. | 5 |
| 7. Briefly state the Dynamic Equilibrium Concept after Hack. | 5 |
| 8. Distinguish 'eskers' from 'Kames'. | 5 |
| 9. Discuss the mode of formation of longitudinal and transverse dunes. | 5 |

CATEGORY-C

Answer any *five* questions from the following within 50 words each

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| | 2×5 = 10 |
| 10. What is the Benioff Zone? | 2 |
| 11. State the significance of the Pleistocene epoch. | 2 |
| 12. What are the characteristics of reverse fault? | 2 |
| 13. How are gloup's formed? | 2 |
| 14. Explain the term 'Chelation'. | 2 |
| 15. How are pyramidal peaks formed? | 2 |
| 16. Briefly describe the formation of Yardang. | 2 |
| 17. What do you mean by 'stage' as mentioned by Davis? | 2 |
| 18. What are the characteristics of rock fall? | 2 |

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