



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

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

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

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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