



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 1st Semester Examination, 2022-23

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.*

FOR REGULAR SYLLABUS

CATEGORY-A

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

1. What is Isostasy? Elucidate the difference between Airy's and Pratt's view on Isostasy. 2+8
2. Explain with suitable sketches the characteristic features of erosional landforms produced by sea waves. What are the favourable conditions for the development of limestone topography? 7+3

CATEGORY-B

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

3. Write a brief account on the system of classification of fault.
4. Explain the process of solifluction.
5. Describe the formation of recumbent fold and nappe.
6. Briefly describe the time-dependent model of landscape evolution.
7. Describe the formation of Island Arc in the context of Plate Tectonics.
8. Discuss the formation of Tor and Bornhardt in the granite region.
9. Describe the evolution of drainage network on uniclinal structure.

CATEGORY-C

Answer any five questions from the following within 50 words each 2×5 = 10

10. What is rotational slump?
11. Define Magnetic anomaly.
12. What is a seismic Shadow Zone?
13. How does Oceanic trenches form?
14. What is the difference between Tombolo and spit?

15. Mention different types of duricrust.
16. What is anthropogenic Weathering?
17. Mention two features of rejuvenated land.
18. What are Tarn and Paternoster Lake?

FOR TRUNCATED SYLLABUS

CATEGORY-A

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

10×1 = 10

1. How are mass movements classified? Explain with examples the different processes of mass movements. 3+7
2. How do you define plate? Explain different plate boundaries and their associated landforms with suitable sketches.

CATEGORY-B

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

5×4 = 20

3. How is weathering different from Erosion? How do salt and ice crystals mechanically weather rocks? 2+3
4. Discuss the structure of earth's interior with reference to surface and body waves.
5. Classify dunes. Elucidate the formation of different types of dune.
6. Describe with diagrams different stages of the formation of inversion of relief in folded structure.
7. What is the role of asthenosphere in plate movement?
8. State the importance of Palaeozoic Era.
9. Write a short note on moraine.

CATEGORY-C

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

2×5 = 10

10. What is "Monadnock"?
11. What is anti-dip stream?
12. Explain "Moho" discontinuity.
13. What is hanging valley?
14. Explain Seismic-shadow zone.
15. What is solifluction and how to determine it?
16. Explain the process of hydrolysis.
17. Explain the formation of hotspot.
18. Give an example of convergent plate boundary (continent-continent) and name one resultant landform.

— x —