

B. Sc. GEOGRAPHY 1st YEAR 2nd SEMESTER EXAMINATION 2023

Subject: Geotectonics and Geomorphology

Paper: SC/GEOG/UG/CORE/TH/03

Time: 2 hours

Full Marks: 50

GROUP-A

Answer any two questions

10 x 2 = 20

1. Discuss the development of major geomorphic features along the convergent plate boundaries. What is polar wandering? 7+3
2. Define mass wasting. Discuss the various types of mass wasting. How is it different from weathering? 2+6+2
3. Define uniclinal structure. Explain in detail the development of drainage network on it. 3+7
4. Compare between one time independent model and one time dependent model of landform development. What is negative feedback mechanism? 8+2

GROUP-B

Answer any two questions

5 x 2 = 10

5. What is the relevance of Pratt's concept of Isostasy?
6. State the major landforms produced by the fluvio-glacial processes.
7. Mention the different types of faults with suitable diagrams.
8. How far the internal properties of rock influence nature of physical weathering?

GROUP-C

Answer any five questions

2 x 5 = 10

9. What is meant by superimposed river?
10. Differentiate between Playa and Bolson Lake.
11. Mention any two features of topography associated with igneous rocks.
12. What is a Tombolo?
13. What is the difference between solifluction and creep?
14. Define triple junction.
15. What is a valley inlier?
16. 'Most of the earth's existing landforms are younger than the Pleistocene and very few are older than the Tertiary' – explain the statement.