

2024
M.Sc.
Second Semester
CORE – 08
GEOLOGY
Course Code: MGLC 2.41
(Geomorphology & Oceanography)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Explain the King's model of landscape development with illustrations. 14
2. Write notes on the following: 7×2=14
 - (a) Geomorphic processes
 - (b) Merits and demerits of Davis model

UNIT-II

3. Give an account on the basin asymmetry factor and stream length gradient index of a drainage basin. 14
4. Write notes on the following: 7×2=14
 - (a) Mountain-front sinuosity
 - (b) Tectonic geomorphology

UNIT-III

5. Discuss on the applications of geomorphology in mineral exploration. 14
6. Write notes on the following: 7×2=14
 - (a) Hydrogeology and geomorphology
 - (b) Role of geomorphology in hazard management

UNIT-IV

7. Explain the factors controlling deposition and distribution of oceanic sediments. 14
8. Write notes on the following: 7×2=14
- (a) Law of the sea
 - (b) Ocean floor morphology

UNIT-V

9. Define El Nino. Discuss the causes and effects of El Nino. 2+12=14
10. Write notes on the following: 7×2=14
- (a) Oceanic conveyor belt
 - (b) Thermocline and pycnocline
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