

**2023**  
**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 Davis model of landscape development. 14
2. Write notes on the following: 7×2=14
  - (a) Exogenic processes
  - (b) Importance of geomorphology

**UNIT-II**

3. Discuss the theories of slope evolution. 14
4. Write notes on the following: 7×2=14
  - (a) Valley floor width to valley height ratio
  - (b) Hypsometric curve and hypsometric integral

**UNIT-III**

5. Explain how regional planning play an important role in the geomorphology of an area. 14
6. Write notes on the following: 7×2=14
  - (a) Hazard management
  - (b) Role of geomorphology in urbanization

## UNIT-IV

7. Discuss the processes involved in deep-sea sedimentation. How are the deep-sea sediments distributed in the world's oceans?  $8+6=14$
8. Write notes on the following:  $7 \times 2 = 14$
- (a) Exogenic processes
  - (b) Importance of geomorphology

## UNIT-V

9. Write notes on the following:  $7 \times 2 = 14$
- (a) Upwelling and downwelling
  - (b) Oceanic mixed layer
10. Discuss the water masses of the Atlantic, the Pacific and the Indian ocean.  $6+4+4=14$
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