

2022
M.Sc.
First Semester
CORE – 04
GEOLOGY
Course Code: MGLC 1.41
(Sedimentology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Define weathering. Discuss in detail the various weathering processes. 14
2. Write notes on the following: 7×2=14
 - (a) Mechanism of sediment transport
 - (b) Concept of flow regime

UNIT-II

3. Define the term sedimentary facies. Discuss various sedimentary facies associated with marine environment. 4+10=14
4. Write notes on the following: 7×2=14
 - (a) Deltaic environment
 - (b) Arid environment

UNIT-III

5. How does plate tectonics control sedimentation in a sedimentary basin? 14
6. Write notes on the following: 7×2=14
 - (a) Tectonics and sedimentation
 - (b) Palaeoenvironment

UNIT-IV

7. What are volcaniclastic rocks? Discuss their classification. 14
8. Write notes on the following: 7×2=14
- (a) Shallow water carbonates
 - (b) Carbonate diagenesis

UNIT-V

9. Write notes on the following: 7×2=14
- (a) Lithologs
 - (b) Palaeocurrents
10. Briefly discuss the application of quartz, feldspar and rock fragments in determination of provenance. 14
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