

2021
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. Write an account on primary and secondary sedimentary structures. 4+10=14
2. Write notes on the following: 7×2=14
 - (i) Physical weathering
 - (ii) Reynolds number and Hjulstrom effect

UNIT-II

3. Write an account on classification of sedimentary environment. 14
4. Write notes on the following: 4+10=14
 - (i) Fluvial environment
 - (ii) Lacustrine environment

UNIT-III

5. Explain the following: 7×2=14
 - (i) Wilson cycle
 - (ii) Palaeoclimate
6. Write a note on sedimentary basins and their classifications. 14

UNIT-IV

7. Write a note on: 7×2=14
 - (i) Types of pyroclastic deposits
 - (ii) Diagenetic processes of sandstone

8. What are deep sea sediments? Explain their classification according to the origin. 2+12= 14

UNIT-V

9. Write the various types of depositional environment with their directional structures and dispersal pattern in studying palaeocurrent. 14
10. Write notes on: 7×2=14
- (i) Recording lithological and grain size data
 - (ii) Provenance determination using quartz

