2023

M.Sc.

First Semester

CORE - 04

GEOLOGY

Course Code: MGLC 1.41 (Sedimentology)

Pass Mark: 28 Total Mark: 70

Time: 3 hours

Answer five *questions*, *taking* one *from each unit*.

UNIT-I

1. Explain the classification of sedimentary structures. 14 2. Write notes on the following:

(a) Reynolds number and Froude number

 $7 \times 2 = 14$

(b) Sediment transport

UNIT_II

3. Write an account on classification of sedimentary environment. 14

4. Write notes on the following:

 $7 \times 2 = 14$

- (a) Deep sea environment
- (b) Significance of ichnofossils in depositional environment

UNIT-III

5. Discuss sedimentary basins and their classifications.

14

6. Write notes on the following:

 $7 \times 2 = 14$

- (a) Palaeoclimate
- (b) Basin analyses

UNIT-IV

7.	Explain the diagenesis of sandstone.	14
8.	Write notes on the following: (a) Deep water sedimentation(b) Shallow coastal clastics	7×2=14
UNIT-V		
9.	Discuss the use of various directional structures in palaeocurrent What are the various possible palaeocurrent directions?	analysis. 14
10.	Write notes on the following: (a) Provenance determination using heavy minerals (b) Preparation of litho-logs	7×2=14