

Roll No. ....

Total Pages : 2

**CMDQ/D-23**

**5202**

**SEDIMENTOLOGY AND  
GEOMORPHOLOGY**

Paper-G-304

Time Allowed : 3 Hours]

[Maximum Marks : 75

**Note** : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Write notes on the following :

- (a) Sandstone. (b) Conglomerate.  
(c) Cross bedding.

**UNIT-I**

2. Discuss the different types of ripple marks and their significance.

3. Write short notes on any **two** of the following :

- (a) Porosity. (b) Bouma cycle.  
(c) Sole marks.

**UNIT-II**

4. Discuss the sedimentological characteristics of glacial depositional environment.

5. Write short notes on any **two** of the following :

- (a) Ortho-and para-Conglomerates.  
(b) Paleo-current analysis.  
(c) Lithic wacke

**UNIT-III**

6. Describe the geological utility of studying about paleochannels of the Saraswati River system.

7. Write short notes on any **two** of the following :

- (a) Stream length gradient index and its utility.  
(b) Heavy mineral analysis.  
(c) Clay mineral analysis.

**UNIT-IV**

8. Describe the peneplanation cycle concept in geomorphology.

9. Write short notes on any **two** of the following :

- (a) Drainage Patterns.  
(b) Concepts in geomorphology.  
(c) Utility of geomorphology in Dam site selection process