

Roll No.

Total Pages : 3

CMDQ/M-24

5572

STRATIGRAPHY

Paper–GT–601

Time Allowed : 3 Hours]

[Maximum Marks : 100

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. Explain the following in brief : 5×4=20

- (a) Principle of cross –cutting relations.
- (b) Scope of correlation.
- (c) Characteristics of a Formation.
- (d) Deccan traps and their age.

UNIT–I

2. Define and discuss the Geological Time Scale. 20

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

- (a) Importance of Biostratigraphy.

(b) Principle of Uniformitarianism.

(c) Principle of Superposition. 2×10=20

UNIT–II

4. Describe briefly various types of Stratigraphic contacts. 20

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

- (a) Lithological correlation.
- (b) Biostratigraphic correlation.
- (c) Chronostratigraphic correlation. 2×10=20

UNIT–III

6. What is chronostratigraphy? Describe various chronostratigraphic units. 20

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

- (a) Biostratigraphy.
- (b) Highstand System Tract.
- (c) Geochronologic units. 2×10=20

UNIT–IV

8. Classify and describe the stratigraphy of Siwalik Group of India. 20

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

(a) Lower Vindhya.

(b) Lower Gondwana and its significance.

(c) Cuddapah Supergroup. $2 \times 10 = 20$