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2 SEM TDC GEO M 1

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(May)

GEOLOGY

(Major)

Course : 201

**(Principles of Stratigraphy and
Indian Stratigraphy)**

Full Marks : 80

Pass Marks : 32/24

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—2.1

(Principles of Stratigraphy)

(Marks : 30)

1. Write on the basic principles and the laws of stratigraphy.

9

Or

What are the standard stratigraphic nomenclatures of rocks and time? Write briefly on the geological time scale. 4+5=9

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(Turn Over)

2. Define stratigraphic correlation. Describe the methods of correlation and their applications. 2+7=9

3. Write short notes on any *three* of the following : 3×3=9

(a) Chronostratigraphy

(b) Paleogeography

(c) C-14 method of dating

(d) Code of Indian stratigraphic nomenclature

(e) Allostratigraphy

4. Fill in the blanks with appropriate word(s) : 1×3=3

(a) The ultimate decay product of U^{235} is _____.

(b) Dinosaurs became extinct during _____ period.

(c) Facies that occur in conformable vertical successions of strata, also occur in _____ adjacent environment.

(3)

UNIT—2.2

(Indian Stratigraphy)

(Marks : 50)

5. Write on the stratigraphy of Proterozoics of Cuddapah basin. 10

Or

Describe the stratigraphy, lithology and igneous activities of Precambrian Era of the Assam-Meghalaya plateau.

6. Write on stratigraphy, lithology and paleontology of salt range of Paleozoic Era. 10

Or

Describe the stratigraphy, lithology and paleontology of Jurassic of Kutch.

7. Write on structure, stratigraphy, lithology and paleontology of Tertiary sequence of NE India. 10

8. Write short notes on any *three* of the following : 3×3=9

(a) Raniganj formation

(b) Bhandar group

- (c) Closespet granite
- (d) Mahadek formation
- (e) Intertrappeans

9. Describe briefly the paleogeography and paleontology of Gondwana Group of India.

3+3=6

10. Fill in the blanks :

1×5=5

- (a) Fossils are found within the _____ of the Daccan trap basalts.
- (b) Impure limestone, calcareous shale and sandstones of Danian age represent _____ formation of Shillong plateau.
- (c) Haimanta Group of Spiti region belongs to _____ period.
- (d) Dhok Pathan formation belongs to _____ Group of rock.
- (e) Basaltic lava flows are found within the _____ formation of the Gondwana Group of India.

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