

Total No. of Printed Pages—4

**2 SEM TDC GEO M 1**

**2014**

( May )

**GEOLOGY**

( Major )

Course : 201

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

Full Marks : 80

Pass Marks : 32

Time : 3 hours

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

**UNIT—2.1**

**( Principles of Stratigraphy )**

( Marks : 30 )

1. Choose the correct one : 1×3=3

- (a) Principles of uniformitarianism which states 'present is the key to the past' was postulated by Smith / Hutton / Grabau / Dana.

(b) A body of rock characterised by lithologic homogeneity is called supergroup / group / formation / bed.

(c) System / series / epoch / stage is not a time rock unit.

2. Write the geological time scale mentioning the appropriate durations of each time unit. 9

Or

Briefly discuss the modern stratigraphic classification mentioning its advantages over the older classification.

3. Write short notes on any *two* of the following :  $3 \times 2 = 6$

(a) Biostratigraphy

(b) Stratigraphic correlation

(c) Time-rock unit

4. What do you mean by paleogeography? Describe the paleogeographic reconstruction.  $2+7=9$

5. Write short note on any *one* of the following : 3

(a) Geochronologic units

(b) Radiometric dating of rocks

UNIT—2.2

( Indian Stratigraphy )

( Marks : 50 )

6. Write notes on any *two* of the following :  $3 \times 2 = 6$

(a) Major physiographic divisions of India

(b) Aravalli strike

(c) Burmese arc

7. Write on the stratigraphy and lithology of the pre-Cambrian rocks of Assam and Meghalaya plateau.  $6 + 4 = 10$

Or

Write on the stratigraphic succession and lithologic description of Upper Vindhayan Group.

8. Write about the stratigraphic succession of Gondwana rocks of India. Also give a brief idea about their structures and economic importances.  $6 + 4 = 10$

9. Describe the stratigraphy, lithology and paleontology of cretaceous of Trichinopoly.  $4 + 3 + 3 = 10$

10. Write notes on (any three) : 3×3=9

- (a) Bundelkhand gneissic complex
- (b) Classification and life of the Cenozoic era
- (c) Deccan trap
- (d) Saline series

11. Answer as directed : 1×5=5

(a) Nurpuh sandstone member is a subdivision of — Formation.

( Fill up the gap )

(b) The Erinpura granite is a — granite.

( Fill up the gap )

(c) The total thickness of Cuddapah Supergroup is —.

( Fill up the gap )

(d) Damodar / Barakar / Raniganj / Rajmahal Formation is richest in plant fossils.

( Choose the correct one )

(e) Bhuj Formation is the name given to — beds.

( Fill up the gap )

\*\*\*