

2 SEM TDC GEO M 1

2019

(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 about the standard nomenclature of chronostratigraphic and lithostratigraphic units.

9

(2)

Or

Write on the code of Indian stratigraphic nomenclature.

2. Write briefly on different methods of radiometric dating of older rocks. 9
3. Write short notes on any three of the following : 3×3=9
- (a) Stratigraphic correlation
 - (b) Seismic stratigraphy
 - (c) Paleogeography and paleoenvironment
 - (d) Bioconose and biotope
 - (e) Paleomagnetism
4. Fill in the blanks with appropriate word : 1×3=3
- (a) Ammonites are used to correlate the rocks of ____ era.
 - (b) C-14 method is used for dating of rocks younger than ____ years.
 - (c) Dinosaurs disappeared at the end of ____ period.

(3)

12

UNIT—2.2

(Indian Stratigraphy)

(Marks : 50)

5. Write on the Precambrian stratigraphy of the Assam-Meghalaya plateau with respect to lithology, tectonics and igneous activity. 10

Or

Write on the stratigraphy of the Proterozoic rocks of Cuddapah basin.

6. Write on the stratigraphy, lithology and paleontology of Paleozoic rocks of Spiti. 10

Or

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

7. Write on the stratigraphy, lithology and paleontology of the Siwalik group. 10

Or

Write on the Cretaceous rocks of North-East India with respect to their stratigraphy, lithology and paleontology.

8. Give a brief outline of the standard geologic column of Indian stratigraphic sequences. 6

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

3×3=9

- (a) The Indus suture
- (b) Sylhet limestone formation
- (c) Age and fossils of Deccan traps
- (d) Namsang formation
- (e) Ariyalur formation

10. Fill in the blanks with appropriate word(s) :

1×5=5

- (a) Jhiri Shales belong to _____ group of Vindhyan supergroup.
- (b) The main lithology of the Disang group of North-East India is _____.
- (c) The chief coal bearing formation of the lower Gondwana succession is the _____ formation.
- (d) The _____ rocks of Salt Range are represented by Productus limestone formation.
- (e) Basal Muschelkalk formation belongs to the rocks of _____ of Spiti.
