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(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. Answer as directed :

1×3=3

(a) Member/Formation/Series/Group is not
a lithostratigraphic unit.

(Choose the correct one)

P13—300/1071

(Turn Over)

(2)

(b) Neogene includes Eocene and Oligocene.
(State True or False)

(c) The total duration of Palaeozoic era is
300/350/370/390 m.y.
(Choose the correct one)

2. What is stratigraphy? Describe the basic principles of stratigraphy. 2+6=8

3. Write short notes on (any two) : 4×2=8

(a) Modern stratigraphic classification

(b) Magnetostratigraphy

(c) Code of Indian stratigraphic nomenclature

4. What is stratigraphic correlation? Describe the technique of stratigraphic correlation. 2+6=8

5. Write short note on (any one) : 3

(a) Geochronology

(b) Absolute geologic time and relative time

(3)

UNIT—2.2

(Indian Stratigraphy)

(Marks : 50)

6. Discuss the tectonic history of Indian Subcontinent. 7

Or

Describe the brief outline of the standard geologic column of Indian stratigraphic sequences.

7. Describe briefly about the Precambrian stratigraphy of Karnataka giving emphasis on lithology, tectonics and igneous activity. 10

Or

Write stratigraphical notes on : 5+5=10

- (a) Proterozoic rocks of Cuddapah Basin
(b) Precambrian rocks of Assam-Meghalaya Plateau

8. Describe the stratigraphy, lithology and palaeontology of cretaceous rocks of South India or Jurassic of Kutch. 9

9. Describe the Cenozoic stratigraphy of North-East India or Siwalik group of rocks with respect to their lithology and palaeontology. 9

(Turn Over)

Palaeontology
300/1071

10. Write short notes on (any five) : $2 \times 5 = 10$

- (a) Iron ore group
- (b) Haimanta group
- (c) Saline series
- (d) Mahadek formation
- (e) Inter-trappean beds
- (f) Talchir formation

11. Answer as directed : $1 \times 5 = 5$

(a) Gneissic and granitic rocks of Indian shield is known as Bundalkhand gneiss/Champion gneiss/Peninsular gneiss.

(Choose the correct one)

(b) Chaibasa and Dalbhum formation belong to — group.

(Fill in the blank)

(c) *Glossopteris indica* is the characteristic fossil of upper Gondwana.

(State True or False)

(d) Outpouring of Deccan Trap, started at the end of Palaeozoic/Mesozoic/Cenozoic era.

(Choose the correct one)

(e) Tipam/Dihing/Surma/Jaintia is the oldest tertiary group of Assam.

(Choose the correct one)
