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2 SEM TDC GEO M 1

2015

(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. What are the basic principles of stratigraphy? Describe the standard stratigraphic nomenclature for rock and time. 3+6=9

Or

Discuss the concept of geological time scale. Write the geological time scale in tabular form.

9

1. Write short notes on (any two) : 3x2=6

2. Write short notes on (any two) :

3x2=6

(a) Chronostratigraphy

(b) Code of Indian stratigraphic nomenclature

(c) Paleogeography

3. What do you mean by stratigraphic correlation? Write in detail about the different methods of correlation and also mention their applications.

1+6+2=9

4. Fill up the blanks with appropriate answer :

1x3=3

(a) — is the strongest criteria for order of superposition.

(b) The Neogene period include —.

(c) — is the principal unit of geological time.

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

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(a) Methods of determining the relative age of rocks

(b) K-Ar method of dating

UNIT—2.2

(Indian Stratigraphy)

(Marks : 50)

6. Fill in the blanks $1 \times 5 = 5$

(a) The Sylhet formation typically consists of —.

(b) The most common rocks of Vindhyan supergroup are —.

(c) Dhokpathan formation is richest in —.

(d) During the Jurassic period, a marine transgression took place from —.

(e) In Deccan traps, the — is fossiliferous.

7. Write on the stratigraphy, lithology and tectonic activity of Precambrian rocks of Karnataka. 10

Or
(b) Productive Limestone Series

Write on the stratigraphic succession and lithology of Cuddapah supergroup.

8. Write about the tectonic history and life of Paleozoic era. 5+5=10

Or

Write about the stratigraphic succession, lithology and palaeontology of Paleozoic of salt range. $4+3+3=10$

9. Write a note on any one of the following : $3 \times 3 = 9$
- (a) Langpar formation
 - (b) Semri group
 - (c) Lameta beds
10. Describe the stratigraphy, lithology and paleontology of Jurassic of Kutch. $4+3+3=10$
11. Write notes on. (any two) : $3 \times 2 = 6$
- (a) Stratigraphy of the Tertiary sequence of Assam
 - (b) Main Boundary Thrust
 - (c) Daling Group
 - (d) Productus Limestone Series
12. Narrate the different problems of correlation either of Precambrian or Tertiary occurrences in India. 6
