Total No. of Printed Pages—4

2 SEM TDC GEO M 1

2018

(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. Explain the basic principles of stratigraphy. Write on stratigraphic classification. 4+5=9

Or

What do you mean by geological time scale? Write the geological time scale in detail. 2+7=9

2. Describe briefly the methods of determination of absolute age of rocks. 9

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

(a) Paleogeographic reconstruction

(b) Chronostratigraphic units

(c) Relative age of rocks

(d) Walther's law

(e) Magnetostratigraphy

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

(a) The age of trilobites refers to ____ period of geological time scale.

(b) The first grass appeared on the earth during ____ period.

(c) Establishment of geochronological relationship between rock successions of different areas is called ____ ____.

(Continued)

UNIT—2.2

(Indian Stratigraphy)

(*Marks* : 50)

5. Write on the stratigraphy of the Proterozoic Vindhyan Group of India. 10

Or

Describe the Precambrian stratigraphy of Singhbhum craton.

6. Write on stratigraphy, lithology and fossils of Paleozoic of Salt Range. 10

Or

Describe the lithology, paleogeography and paleontology of Gondwanas of peninsular India.

7. Describe the stratigraphy, lithology and paleontology of Cretaceous of Trichinopally. 10

Or

Write on lithology, fossil and age of Deccan Traps.

8. Elucidate the problems of correlation of Precambrian rocks of India in brief. 6

(Turn Over)

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

(a) MCT and MBT

(b) Siwalik Group

(c) Tipam Sandstone Formation

(d) Tikak Parbat Formation

(e) Haimanta Group

10. Fill in the blank(s)/Choose the correct word : 1×5=5

(a) Glauconitic sandstones of Cretaceous age in Meghalaya belong to _____ Formation.

(b) Srisailam Formation belongs to _____ Group.

(c) Umia Group is found to occur within the _____ of _____.

(d) Mottled clay is a characteristic lithology of _____ _____ Formation in NE.

(e) Mylliem granite is _____ than Khasi Greenstone in intruding Shillong Group. (younger/older)

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