

Geo, Bot, Math, Phy, Zoo,

No. of Printed Pages—4

1 SEM TDC GEO M 1

2013

(November)

GEOLOGY

(Major)

Course : 101

(General Geology)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

The figures in the margin indicate full marks
for the questions

UNIT—1

(Introduction to Geology)

(Marks : 15)

Fill in the blanks :

2

- (a) Carboniferous period commenced about
— million years ago.
- (b) Miocene and Pliocene together is called
— period.

(2)

2. Write briefly on the scope and branches of Geology. 3
3. Define mineral and rock. Describe the properties of igneous, sedimentary and metamorphic rocks and give three examples of each type. 2+6+2=10

Or

What are different types of fossils? How are fossils formed? Write on applications of fossils in Geology. 4+3+3=10

UNIT—2

(Physical Geology)

(Marks : 25)

4. Fill in the blanks : 1×3=3
- (a) Mohorovicic discontinuity separates the — from — of the earth.
- (b) Black cauliflower type cloud of ash is associated with — type of volcanic eruption.
- (c) Geosynclines without volcanic rocks are called —.
5. Write short note on any one of the following : 4
- (a) Isostasy
- (b) Epeirogeny

(3)

6. Define Paleomagnetism. How does Paleomagnetism help in explaining the concept of seafloor spreading and plate tectonics? 2+7=9

Or

What are the types of earthquake? Describe the causes of earthquakes. 2+7=9

7. What is half life of an radioactive element? Describe a suitable radioactive method for dating of rocks. 2+7=9

UNIT—3

(Geomorphology)

(Marks : 25)

8. Fill in the blanks : 1×3=3
- (a) Annular drainage pattern develops over dissected — structure.
- (b) Crevasse splay deposits are found in — environment.
- (c) An example of antecedent river in India is —.
9. Define soil. Describe an ideal soil profile. Write on classification of soil. 1+4+4=9

(4)

10. Describe briefly the geomorphic features developed in either *coastal* or *olian* environment. 9
11. Write short note on any *one* of the following : 4
- (a) River terrace
- (b) Trellis drainage pattern

UNIT—4

(Principles of Geochemistry)

(Marks : 15)

12. Fill in the blank : 1
Glassy meteorites are known as —.
13. Write briefly on any *one* of the following : 4
- (a) Composition of the crust
- (b) Geochemical environment
14. Write on geochemical mobility and geochemical association of minerals. 5+5=10
