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1 SEM TDC GEO M 1 (N/O)

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(November)

GEOLOGY

(Major)

Course : 101

(General Geology)

Full Marks : 80

Pass Marks : 32/24

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—1.1

(Introduction to Geology)

(Marks : 15)

1. Answer the following as directed : 1+1=2

(a) _____ is a fundamental rock unit.

(Fill in the blank)

(b) Lavas contain maximum amount of
volatiles and water vapour.

(Write Yes or No)

(2)

2. Define minerals and rocks. Write about major divisions of rocks with suitable examples. (At least three examples of each) 1+3=4
3. Mention the different branches of Geology. Write about the interrelationship of Geology with other branches of Science. 3+6=9

Or

Write explanatory notes on the following : 3×3=9

- (a) Guide fossils
- (b) Index fossils
- (c) Trace fossils

UNIT—1.2

(Physical Geology)

(Marks : 25)

4. Answer the following as directed : 1×3=3
- (a) Average density of Earth is _____.
(Fill in the blank)
 - (b) 4982 kms to 5121 kms of Earth's interior is known as _____.
(Fill in the blank)
 - (c) Younger acidic rocks are most radioactive. (Write Yes or No)
5. Define geosyncline. Write about Aubuin's classification of geosyncline. Mention about basic characteristics of geosyncline. 1+5+3=9

(3)

6. Write short notes on any *one* of the following : 4

(a) Orogeny and Epiorogeny

(b) Paleomagnetism

7. What do you mean by continental drift? Explain about the relationship of continental drift to the concept of plate tectonics. 2+7=9

Or

Describe how continents and oceans are originated. 9

UNIT—1.3

(Geomorphology)

(Marks : 25)

8. Fill in the blanks : 1×3=3

(a) Exfoliation is a form of _____.

(b) Natural levee is an example of _____ deposits.

(c) Disintegration and decomposition together known as _____.

9. What is mass wasting? Describe the different causes and types of mass wasting. 2+3+4=9

10. Define soil. How is soil formed? Give the ideal soil profile. 2+3½+3½=9

(4)

Or

Describe the geomorphic features developed in either glacial or coastal environment. 9

11. Write short notes on any *one* of the following: 4
- (a) Law of uniformitarianism
 - (b) Drainage pattern

UNIT—1.4

(Principles of Geochemistry)

(Marks: 15)

12. Fill in the blanks : 1
- The crust consists of about ____% silicate minerals.
13. Write short notes on any *one* of the following : 4
- (a) Cosmic abundance of elements
 - (b) Composition of meteorites
14. Write an essay on geochemical classification of elements. 10

Or

Write in detail about geochemical environment.
