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1 SEM TDC GEOH (CBCS) C 1

2 0 2 4

(November)

GEOLOGY

(Core)

Paper : C-1

(Earth System Science)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

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

UNIT—1

(Marks : 10)

1. Answer the following very short answer-type questions : 1×5=5

- (a) In which arm of the milky way, our solar system can be found?
- (b) Define Asteroids.
- (c) What is the composition of the sun?

(2)

- (d) Name the planet in our solar system having the highest density.
- (e) What is the percentage of the composition of the sun in our solar system?

2. Write a short note on Nebular Hypothesis with its defects. 5

UNIT—2

(Marks : 10)

3. Fill in the blanks : $1 \times 2 = 2$

(a) Age of the earth is _____.

(b) Discontinuity between the crust and the mantle is _____.

4. Write briefly about the interior of the earth. 5

Or

Write about the different layers of the atmosphere.

5. Write a short note on any one of the following : 3

(a) Magnetic field of the earth

(b) Orbital and rotational characteristics of the earth

(3)

UNIT—3

(Marks : 33)

6. Fill in the blanks : $1 \times 3 = 3$

- (a) The branch which deals with the fossil is called _____.
- (b) _____ wave passes through both solid and liquid.
- (c) Combined effect of weathering and erosion is called _____.

7. Write True or False : $1 \times 2 = 2$

- (a) Minerals are homogenous inorganic substances.
- (b) Acidic rocks are also called mafic rocks.

8. What is soil? Write briefly about soil profile with suitable diagram. $1 + 4 = 5$

9. Write short notes on any *two* of the following : $3 \times 2 = 6$

- (a) Metamorphic rock
- (b) Rock-forming minerals
- (c) Earth's heat budget
- (d) Law of superposition and Faunal succession

10. Write about the concept of plate tectonics.
Describe the plate boundaries. 2+4=6
11. Write briefly about any *one* of the following : 4
- (a) Coriolis effect
 - (b) Land breeze and Sea breeze
 - (c) Peninsular India
12. Write the difference between weather and climate. 2
13. What is the major unit of geological time scale? 1
14. Define uniformitarianism. 1
15. Write briefly about the types of igneous rocks with examples. 3
