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1 SEM TDC GEOH (CBCS) C 1

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(December)

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

(Universe and Solar System)

(Marks : 8)

1. (a) Fill in the blanks (any five) : 1×5=5
- (i) Hubble space telescope is operational since the year ____.
- (ii) Six quarks and six leptons are grouped as ____.

- (iii) One light-year equals to ____ km.
- (iv) Trojans and Greeks are two groups of asteroids which revolve the Sun along the orbit of ____ planet.
- (v) Pluto is an element of ____ belt.
- (vi) The largest shield volcano of Mars is known as ____.
- (b) Write short notes on any *one* of the following :
- (i) Meteorites
- (ii) Milky Way
- (iii) Nebular hypothesis

3

UNIT—2

(**Earth System**)

(Marks : 10)

2. Write explanatory notes on any *two* of the following : 5×2=10
- (a) Orbital and rotational properties of the Earth
- (b) Internal structure of the Earth
- (c) Earth's atmosphere

(3)

UNIT—3

(Introduction to Geology)

(Marks : 35)

3. What are the branches of Geology? What do you mean by the term 'seismology'? 4+2=6
4. Write briefly on any *three* of the following : 3×3=9
- (a) Rock and rock cycle
 - (b) Gradational processes
 - (c) Physiographic subdivisions of India
 - (d) Volcanos and their types
5. What are the atmospheric processes that affect the exogenic environment of the Earth? 5
6. Write briefly on geology of Indian subcontinent. 5

Or

Write about the volcanic and earthquake belts of the world.

7. Write short notes on any *two* of the following : 5×2=10

- (a) Differences between uniformitarianism, catastrophism, actualism and neptunism
- (b) Relation between time and geology in terms of stratigraphic perspective
- (c) Coriolis effect and relationship between ocean current
- (d) Plate tectonics and types of plate boundaries
