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2021

( March )

GEOLOGY

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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. Write True or False (any five) :

1×5=5

- Muon is an example of quark. (a)
- First element appeared in the universe (b) after Big Bang is Helium.
- natural largest the (c) Ganymede is satellite of our solar system.

- (d) TON 618 is the supermassive black hole residing in our galaxy.
- (e) Oort cloud is the belt of planetesimal debris lying at the edge of our solar system.
- (f) Dark age lies between recombination and the formation of the 1st star.
- (g) Baryons are inclusive of Hadrons.
- 2. Write a short note on any one of the following:
  - (a) Asteroid
  - (b) Grand unification epoch
  - (c) Nucleosynthesis

### UNIT-2

for the question

## (Earth System ) svinU

( Marks : 10 )

- 3. Write explanatory notes on any two of the following: 5×2=10
  - (a) Earth's magnetic field and magnetosphere
  - (b) Theories of formation of earth
  - (c) Discontinuities of earth's interior

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(Continued)

3

#### UNIT-3

## (Introduction to Geology)

( Marks : 35 )

4.	Write about the different processes of rock weathering.	6
5.	Write briefly on any three of the following: 3×3=	9
	(a) Coriolis effect	
	(b) Heat budget of earth	
	(c) Uniformitarianism	
	(d) Soil profile	
6.	Write about the physiographic divisions of India.	5
7.	Write about the geomorphic features of glacial environment.	5

Or

Write about the geomorphic features of coastal environment.

- **8.** Answer in short any *two* of the following:  $5\times2=10$ 
  - (a) Write about the erosional activities of wind.

- (b) Write about the difference between gradualism and catastrophism.
- (c) Write about the significances of different stratigraphic studies.
- (d) Compare ocean current and sea waves.

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