3 SEM TDC GEOH (CBCS) C 7

2021

(Held in January/February, 2022)

GEOLOGY

(Core)

Paper: C-7

(Metamorphic Petrology)

Full Marks: 53
Pass Marks: 21

Time: 3 hours

The figures in the margin indicate full marks for the questions

UNIT-1

(Marks: 15)

- 1. (a) "Metamorphism is defined as the result of heat, pressure and chemically active fluids." Discuss this critically.
 - (b) Write short notes on any two of the following: 4×2=8
 - (i) Metamorphic zones
 - (ii) Metamorphic facies
 - (iii) ACF and AKF diagrams

7

UNIT-2

(Marks: 12)

5
5
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5
2
7
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UNIT-4

(Marks : 5)

- **4.** Write short notes on any *two* of the following: $2\frac{1}{2} \times 2 = 5$
 - (a) Metasomatism
 - (b) Role of fluids in metamorphism
 - (c) Origin of migmatites

UNIT-5

(Marks: 8)

- 5. Write short notes on any four of the following: 2×4=8
 - (a) Quartzite
 - (b) Amphibolite
 - (c) Schist
 - (d) Gneiss
 - (e) Charnockite
 - (f) Phyllite
