

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPP-1089

M.Sc. (Previous) Examination, 2022

GEOLOGY

Paper - IV

(Economic Geology and Mineral Economics)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

2 each

1. (i) What are Syngenetic Ore deposits ?
- (ii) Define Fluid Inclusion.
- (iii) Give the name of two ore of Aluminium.

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- (iv) Define Wall rock alteration.
- (v) Define Coal Bed Methane (CBM).
- (vi) What is Comb Structure ?
- (vii) Write the name of Tertiary coal field in India.
- (viii) Describe Kolar gold field.
- (ix) What are the properties of bentonite clay ?
- (x) What is MMDR Act ?

Section-B

5 each

2. Describe the magma and its relation with the mineral deposits.

Or

Describe the stratiform and stratabond ore deposits.

3. Describe Lead-Zinc Deposit of Rajasthan.

Or

Discuss the hydrothermal process of ore formation.

4. Describe contact metamorphism process.

Or

Discuss oxidation and supergene enrichment process.

5. Discuss the various oil field of Rajasthan.

Or

Discuss the Gypsum deposits of Rajasthan.

6. Discuss the concept and scope of mineral economics.

Or

Discuss the minor and major minerals.

Section-C

10 each

7. Explain the various metallogenic epoch and provinces of India.

8. Discuss the magmatic concentration process of mineral formation.
9. Discuss the mode of occurrence, distribution and uses of copper deposits of India.
10. Discuss the classification, grade and types of Coal.
11. Explain the various Laws and Acts related to mines and minerals.