

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPG-1101

M.Sc. (Previous) Examination, 2021

GEOLOGY

Paper - IV

(Economic Geology and Mineral Economics)

Time : 1½ Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

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

(खण्ड-अ)

(अंक : 2 × 10 = 20)

नोट :- सभी **दस** प्रश्नों के उत्तर दीजिए (उत्तर-सीमा **50** शब्द)। प्रत्येक प्रश्न **2** अंक का है।

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.

(खण्ड-ब)

(अंक : 5 × 5 = 25)

नोट :- सभी **पाँच** प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा **200** शब्द)। प्रत्येक प्रश्न **5** अंक का है।

Section-C

(Marks : 10 × 3 = 30)

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

(खण्ड-स)

(अंक : 10 × 3 = 30)

नोट :- पाँच में से किन्हीं **तीन** प्रश्नों के उत्तर दीजिए (उत्तर-सीमा **500** शब्द)। प्रत्येक प्रश्न **10** अंक का है।

BI-813

(1)

BPG-1101 P.T.O.

Section–A

2 each

1. (i) Describe Gossans.
- (ii) Describe Skarn deposits.
- (iii) What are epithermal deposits ?
- (iv) Describe Ladder Vein deposits.
- (v) Describe alluvial placer deposits.
- (vi) Describe the chromite deposits of India.
- (vii) Describe varieties of coal.
- (viii) Describe the distribution of Uranium in India.
- (ix) Describe origin of Bauxite in India.
- (x) Describe 'Digboi' oil field.

Section–B

5 each

2. Discuss the process of Magmatic concentration of ore formation.

Or

Describe the cavity filling deposits with examples.

3. Describe the chemistry of supergene sulphide deposition.

Or

Describe the residual concentration process.

4. Discuss the origin, essential conditions and distribution of petroleum deposits of India.

Or

Describe the Copper deposits of India.

5. Discuss non-conventional energy resources.

Or

Compare the nuclear and solar energy as a non-conventional energy source for future.

6. Discuss the various Laws and Acts related to mines and minerals.

Or

Discuss concise global status of Indian mineral resources.

Section–C

10 each

7. Describe Lead-Zinc deposits of India.
8. Discuss the geology of lignite deposits of Western India.
9. Discuss the Rajpura-Dariba polymetallic sulphide deposit.
10. Discuss the Gypsum deposits of Rajasthan.
11. Describe the oxidation and supergene enrichment process of mineral formation.