

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-438

M.Sc. (Final) Examination, 2023

GEOLOGY

Paper - VIII

(Mining Geology and Engineering Geology)

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

1. (i) What is Theodolite ?
- (ii) Define Ore-guides.

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- (iii) What is bouguer anomaly ?
- (iv) Define Prospecting.
- (v) What is Drift Mining ?
- (vi) What are the functions of Collectors in Beneficiation ?
- (vii) Name any *two* ore minerals of zinc.
- (viii) What is an assay value ?
- (ix) What is Brazillian test ?
- (x) What is reservoir ?

Section-B

2. Write a note on Geological Mapping.

Or

Discuss various types of Sampling Methods.

3. Discuss various types of drilling.

Or

Write a note on well logging.

4. Write a note on coal mining.

Or

What are Explosives ? Explain their types.

5. Discuss the gravity separation method.

Or

Describe the Lead-Zinc deposits of Rajasthan.

6. Explain the Geological investigation of Dam.

Or

Discuss the application of Geology in Civil Engineering.

Section–C

7. Describe the physiographic and structural ore-guides.
8. Describe the electrical methods of geophysical prospecting.
9. Discuss the classification of mineral reserves.
10. Explain the phases of mineral processing.
11. Explain geologic parameters and classification of Tunnels.