

Roll No : .....

Total No. of Questions : 11 ]

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# SP-693

M.Sc. (Final) Examination, 2021

GEOLOGY

Paper - VIII

(Mining Geology and Engineering Geology)

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।

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SP-693 P.T.O.

**Section–A**

2 each

1. (i) What is Gunter's chain ?
- (ii) What is Plumb Bob ?
- (iii) What do you mean by Reservoir ?
- (iv) Define Porosity.
- (v) What is Prospecting ?
- (vi) What do you mean by core sample ?
- (vii) Distinguish between bore holes and grooves.
- (viii) What is Alluvial mining ?
- (ix) Define Permeability.
- (x) What is Modifiers ?

**Section–B**

5 each

2. Discuss the various methods of sampling.

*Or*

Describe the surface exploration.

3. Discuss the Geochemical prospecting.

*Or*

Describe the types of Drilling methods.

4. Discuss ore reserve calculation in brief.

*Or*

Describe the Mining Terminology.

5. Discuss the phases of mineral processing.

*Or*

Describe the methods of mineral dressing.

6. Discuss the role of geology in civil engineering.

*Or*

Describe geological investigation of Dam.

**Section–C**

10 each

7. Discuss about physiographic guides.
8. Describe electrical method of geophysical prospecting.
9. Discuss methods of underground mining.
10. Describe flowsheet for Copper and Maganese.
11. Describe classification of Tunnels.