

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 7326 L

Unique Paper Code : 2193010016

Name of the Paper : Mineral Resources and Economics

Name of the Course : **B.Sc. (Hons.) Geology DSE 12(i)**

Semester : VIII

Duration : 3 Hours Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

1. Classify mineral deposits based on their processes of formation. Discuss how this classification helps in designing appropriate exploration strategies.

2. What are resources and reserves? Explain briefly two conventional methods of reserve estimation: triangular method and cross section method.

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3. Discuss different methods of mining and their suitability for various types of mineral extraction, highlighting environmental and economic considerations.

4. Explain the importance of critical and strategic minerals in modern industry and national security. Give relevant examples.

5. Explain :

(i) Law of demand

(ii) Critical and strategic minerals

(iii) Precious and industrial metals

6. Describe the uses, production and consumption of (a) platinum (b) rare earth elements.

7. Write notes on major mineral resources and production in :

(i) Jharkhand

(ii) Karnataka

8. In context of mining and processing of mineral resources, explain the following :

(i) Sustainability

(ii) Economic considerations

P.T.O.

(200)

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