

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- VIIIth SEMESTER-EXAMINATION – MAY- 2012****Subject code: 182201****Date: 10/05/2012****Subject Name: Mine and Mineral Economics****Time: 10:30 am – 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Write a note on economic importance of the mineral industry. **07**
(b) Explain conservation of mineral resources. **07**
- Q.2** (a) Explain about risky nature of mining industry. **07**
(b) Highlight the contents of national mineral policy. **07**
- OR**
- (b) What do you understand by mine valuation? Describe different methods and their application. **07**
- Q.3** (a) Draw the structure of mineral information system **07**
(b) How are tonnage factors and mineable ore limitations are calculated? **07**
- OR**
- Q.3** (a) Explain ore classification. **07**
(b) Explain the co-efficient of completeness of mineral extraction. **07**
- Q.4** (a) Explain the following terms: **07**
(i) Dilution
(ii) Recovery
- (b) List out the factors affecting operating cost in mining operation. **07**
- OR**
- Q.4** (a) Write a note on estimation of reserve. **07**
(b) Explain sampling procedure and the precautions taken during sampling alluvial deposits and dumps. **07**
- Q.5** (a) Explain the methods of mine valuation. **07**
(b) Give the overview of Indian mining industry. **07**
- OR**
- Q.5** (a) Write a note on life of mine. **07**
(b) Explain socioeconomic significance of small mines. **07**
