

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE – SEMESTER–VIII • Remedial EXAMINATION – WINTER 2013**

**Subject Code: 182201****Date: 18/09/2013****Subject Name: Mine and Mineral Economics****Time: 03:00 pm – 05:30 pm****Total Marks: 70****Instructions:**

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

- Q.1** (a) What do you understand by mine valuation? Describe different methods and their application. **07**  
 (b) Describe role of mineral industry in national economic. **07**
- Q.2** (a) Explain mineral information system with schematic layout. **07**  
 (b) Explain the following terms: **07**  
 (1) Dilution (2) Recovery (3) Depletion of mineral
- OR**
- (b) Explain ore classification **07**
- Q.3** (a) Explain conservation of mineral resources. **07**  
 (b) Write a note on socio-economic importance of small scale mining. **07**
- OR**
- Q.3** (a) Explain about risky nature of mining industry. **07**  
 (b) How tonnage factors and mineable ore limitations are calculated? **07**
- Q.4** (a) Highlight the contents of national mineral policy. **07**  
 (b) What is reduction of sample? Explain method of reduction of sample. **07**
- OR**
- Q.4** (a) List out the factors affecting operating cost in mining operation. **07**  
**Q.4** (b) Explain the co-efficient of completeness of mineral extraction. **07**
- Q.5** (a) Write a note on Overview of Indian mining industry. **07**  
 (b) Write a note on estimation of reserve. **07**
- OR**
- Q.5** (a) What is sample? Describe various sampling methods with andure. **07**  
 (b) Write a note on life of mine. **07**

\*\*\*\*\*