

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER– VIII • EXAMINATION – SUMMER 2015**

**Subject Code: 182201**  
**Subject Name: Mine & Mineral Economics**  
**Time: 10:30 am to 01:00 pm**

**Date: 15 /05 / 2015**  
**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) Explain conservation of mineral resource, scope, and limitation. **07**  
 (b) Explain the mineral information system **07**
- Q.2** (a) What is risky nature of mining industry? Describe in details. **07**  
 (b) Give the highlights of national mineral policy. **07**
- OR**
- (b) What do you understand by mine valuation? Describe different Methods and their application. **07**
- Q.3** (a) What is ore classification? **07**  
 (b) How tonnage factors and mineable ore limitations are calculated? **07**
- OR**
- Q.3** (a) Explain Standard cost and forecast. **07**  
 (b) Explain the co-efficient of completeness of mineral extraction. **07**
- Q.4** (a) Explain the following terms :( any two) **07**  
 ( I ) Taxes and duties  
 (ii) Recovery  
 (iii) Dilution  
 (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) What is sampling? Explain procedure and the precautions taken during Sampling alluvial deposits and dumps. **07**
- Q.5** (a) Write a note on life of mine. **07**  
 (b) Explain socioeconomic significance of small mines. **07**
- OR**
- Q.5** (a) Describe the report on mine valuation. **07**  
 (b) What is budget? Explain budget and budgetary control. **07**

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