

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2182201****Date: 26/11/2018****Subject Name: Mine & Mineral Economics****Time: 02:30 PM TO 05:00 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) What is mine valuation? **03**
 (b) Define following terms: (1) Mineral (2) Ore (3) Gangue. **04**
 (c) Describe various functions of national mineral policy 2015. **07**
- Q.2** (a) Write a short note on dilution & recovery. **03**
 (b) Explain Standard cost and forecast cost. **04**
 (c) What is reduction of sample? Explain method of reduction of sample. **07**

OR

- (c) Explain any one method of mine valuation. **07**
- Q.3** (a) What is sampling? **03**
 (b) What is State the socio-economic significance of small and mid size mines? **04**
 (c) Explain the different software used for Mineral Information System. **07**

OR

- Q.3** (a) How is mineral extraction affecting Indian economy? **03**
 (b) Define the royalty, taxes and duties. **04**
 (c) Describe mineral resource in India. **07**
- Q.4** (a) How is conservation of mineral resources carried out? **03**
 (b) Describe various types of reserve estimate. **04**
 (c) Describe their importance and write different precautions taken for sampling. **07**

OR

- Q.4** (a) Explain the MIS. **03**
 (b) Write a short note on budgetary control. **04**
 (c) What is risky nature of mining industry? Describe in details. **07**
- Q.5** (a) Explain the mineable ore as a limitation. **03**
 (b) Write a note on ore classification. **04**
 (c) Describe Standard Cost and Future Cost in brief. **07**

OR

- Q.5** (a) Explain the procedure and precaution of sampling alluvial deposits and dumps. **03**
 (b) Write a short note on Life of Mine. **04**
 (c) How tonnage factors and mineable ore limitations are are calculated? **07**
