

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII(OLD) • EXAMINATION – WINTER 2017****Subject Code: 172201****Date: 18/11/2017****Subject Name: Mine Planning****Time: 10.30 AM TO 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) Define Mine Planning with their components in detail. **07**  
(b) Explain in brief the role of Mine Planning in mine ventures. **07**
- Q.2** (a) Write note on Reserve Estimation. **07**  
(b) Define Cut-off grade and how it can be determined? **07**
- OR**
- (b) Explain Grade Tonnage Curve with their computation method. **07**
- Q.3** (a) Describe Taylor's Rule of Mines Life. **07**  
(b) Explain Haul Road Design with their application in mine. **07**
- OR**
- Q.3** (a) Describe Bench Geometry and various planning steps for mining. **07**  
(b) Write note on Ultimate Pit Analysis. **07**
- Q.4** (a) Describe that how to make detailed project report. **07**  
(b) Explain the functions and preparation of feasibility study report. **07**
- OR**
- Q.4** (a) Write advantages and disadvantages of Open Cast Mining. **07**  
(b) Describe various factors for considering in dump planning. **07**
- Q.5** (a) Write advantages and disadvantages of Underground Mining Method. **07**  
(b) Write note on Losses and Dilution in Mine. **07**
- OR**
- Q.5** (a) Explain: (1) Inferred Reserve (2) Proved Reserve (3) Mineable Reserve **07**  
(b) Write note on Planning and Scheduling of Production. **07**

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