

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER- IV(NEW) EXAMINATION – SUMMER 2015

Subject Code:2142206**Date:05/06/2015****Subject Name: Surface Mine Production****Time: 10:30am-1.00pm****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 surface mining? Explain types of surface mining in brief. **07**
(b) Describe the advantage and disadvantage of Open cast mining. **07**
- Q.2** (a) What are the factors that affect the choice of mining method? **07**
(b) How is over burden removes in open cast mining? **07**
- OR**
- (b) What are the major operations that take place in open cast mining? **07**
- Q.3** (a) Explain the steps in ground preparation. **07**
(b) Explain the different types of drilling equipment with diagram. **07**
- OR**
- Q.3** (a) What are different drilling pattern? Explain in brief. **07**
(b) What is blasting? Explain types of blasting in short. **07**
- Q.4** (a) What are the problems faced by loading machines in different ground conditions? **07**
(b) Explain different types of loaders? **07**
- OR**
- Q.4** (a) Describe the types of transportation system in open cast mining. **07**
(b) How drainage is managed in opencast mining? **07**
- Q.5** (a) Write note on any two : **14**
1. Mine reclamation.
 2. Pipeline transportation.
 3. Power Shovel.
 4. Mine Benches.
