

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – WINTER • 2014

Subject Code: 152202

Date: 28-11-2014

Subject Name: Surface Mine Production

Time: 10.30 am - 01.00 pm

Total Marks: 0

Instructions:

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

- Q.1** (a) Define the terms associated with surface mining. **07**
(b) What are the advantages and disadvantages of open cast mining? **07**
- Q.2** (a) Explain the main parameters of open cast mining. **07**
(b) What are the major operations in surface mining? **07**
- OR**
- (b) What is drilling? Describe different drilling pattern. **07**
- Q.3** (a) Evaluate different types of drilling equipments used in mining. **07**
(b) What is blasting? Explain coyote and secondary blasting. **07**
- OR**
- Q.3** (a) What are the factors that affect the excavators in different conditions? **07**
(b) Evaluate the types of transport system in open cast mining. **07**
- Q.4** (a) Explain spreaders and reclaimers. **07**
(b) What is mine reclamation? Explain types of reclamation for open cast mining. **07**
- OR**
- Q.4** (a) What are the drainage requirements in surface mining? **07**
(b) How slope stability is protected and monitored? **07**
- Q.5** Write Note on any two : **14**
1. Mechanics of slope failure.
2. Power shovel and Dragline.
3. Disposal of overburden.
4. Scrapping and Ripping.
