

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-V • EXAMINATION – SUMMER • 2014**

**Subject Code: 152202**

**Date: 13-06-2014**

**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)** Advantages and disadvantages of surface mining. **07**
- Q.1 (b)** Define following terms with diagram. **07**  
i) Bench height ii) Bench width iii) Bank width iv) Berms v) Ramp  
vi) Overall slope angle
- Q.2 (a)** DGMS norms related to bench parameters. **07**
- Q.2 (b)** Describe Major operations in surface mining. **07**  
OR
- Q.2 (b)** Explain inclined drilling. **07**
- Q.3 (a)** Shortnote:Bulldozer. **07**
- Q.3 (b)** Describe coyote blasting. **07**  
OR
- Q.3 (a)** Shortnote:Scrapper. **07**
- Q.3 (b)** Explain Secondary blasting. **07**
- Q.4 (a)** Difference between high explosives and low eplosives. **07**
- Q.4 (b)** Factors influencing choice of excavating machines. **07**  
OR
- Q.4 (a)** Various blasting patterns of multirow blasting. **07**
- Q.4 (b)** Describe continuous surface miner. **07**
- Q.5 (a)** Explain belt conveyor transport system. **07**
- Q.5 (b)** Explain reclaimers. **07**  
OR
- Q.5 (a)** Planning methods of reclamation for opencast mining. **07**
- Q.5 (b)** Factors influencing stability of slopes. **07**

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