

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. Sem. - V - Examination – June- 2011

Subject code: 152201

Subject Name: Mining Machinery - II

Date: 20/06/2011

Time: 10:30 am – 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) Describe with sketch Pit -top lay outs **07**
(b) Explain working of ploughs & conditions under which it is suitable to deploy. **07**

Q.2 (a) Describe with sketch Pit- bottom layouts. **07**
(b) Explain working of [1] continuous Miners [2] Multi rope winding **07**

OR

(b) Explain working of [1] Rigid & rope guide (2) ward Leonard control **07**

Q.3 (a) Describe with figure design of head gear. **07**
(b) What are the different shaft fittings ? **07**

OR

Q.3 (a) Explain parameter for selecting coal cutting equipments. **07**
(b) Describe operations & maintenance parameters of Coal cutting equipments. **07**

Q.4 (a) Describe with sketch layouts of railways siding of mines. **07**
(b) Explain [1] Creepers [2] Mineral handing & screening equipments **07**

OR

Q.4 (a) Briefly describe safety regulations in different signaling system in mines. **07**
(b) What do you mean by workability of Coal ? **07**

Q.5 (a) Explain functioning of Automatic winding & winding drum. **07**
(b) Describe with sketch winding from different horizons. **07**

OR

Q.5 (a) Describe Methods of counter balancing loads. **07**
(b) Explain [1] Detaching hooks [2] trippers. **07**
