

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-IV Examination June- 2010

Subject code: 142204

Subject Name: Mineral Transportation Engineering

Date: 21 /06 /2010

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) Write down the factors to be considered before selecting any mode of transport system. **07**
(b) Differentiate between underground & surface transport system. **07**
- Q.2** (a) Enlist different transport system used underground & surface. **07**
(b) Calculate the carrying capacity of trough belt conveyor. **07**
- OR**
- (b) Write short note on high angle conveyor. **07**
- Q.3** (a) Give applicability conditions of rope haulages. **07**
(b) Explain constructional features of Gravity haulage. **07**
- OR**
- Q.3** (a) Explain constructional features of Direct haulage. **07**
(b) Explain salient features of Endless haulage. **07**
- Q.4** (a) Explain constructional features of Bi-cable ropeway. **07**
(b) Write merits & demerits of Aerial ropeways. **07**
- OR**
- Q.4** (a) Explain constructional features of Mono-cable ropeway. **07**
(b) Give applicability conditions of Aerial ropeway. **07**
- Q.5** (a) Give applicability conditions of Dumpers. **07**
(b) Explain constructional features of Dumpers. **07**
- OR**
- Q.5** (a) Enlist & explain safety devices used in Haulages. **07**
(b) Enlist & explain safety devices used in Dumpers. **07**
