

GUJARAT TECHNOLOGICAL UNIVERSITY**ME – SEMESTER – III (New)– EXAMINATION – WINTER-2019****Subject Code: 3731409****Date: 16-11-2019****Subject Name: Construction Equipment and Management****Time: 02:30 PM TO 05:00 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) How proper selection of construction equipment is useful to lead the project success. **07**
- (b) Write Short note on economic life of construction equipment. **07**
- Q.2** (a) Enlist and Explain Types of Conveyors used in construction. **07**
- (b) Write the Importance of Pumps in Constriction. And explain any one pump with respect to civil engineering applications. **07**
- OR**
- (b) Enlist various methods used for calculating depreciation. Explain any one in details. **07**
- Q.3** (a) How the proper use of Portable material bins is benefited to construction project. **07**
- (b) Explain different types of Forklifts used in construction industry. **07**
- OR**
- Q.3** (a) Explain the use of Chain Pulley Block in construction. Also write its limitation in construction work. **07**
- (b) What are the various Hazards occur during the material handling operations? **07**
- Q.4** (a) Write short note on equipment replacement policy. **07**
- (b) Write different Factors affecting to selection of a Dozer. Explain various Types of Blades used in Dozer. **07**
- OR**
- Q.4** (a) Write short note on Maintenance management of construction equipment management. **07**
- (b) Enlist various equipment uses in Tunneling work. Also write its application at different stages of tunneling operations. **07**
- Q.5** (a) A Needle vibrator purchased for Rs. 24000. If after 6 years its scrap value is Rs. 6000. Consider Rate of Interest is 6%. Calculate amount of annual depreciation with straight line Method and sinking fund method. **07**
- (b) Write short note on Batching and Mixing Equipment. **07**
- OR**
- Q.5** (a) Explain Different Hauling equipment used in various construction works. **07**
- (b) Write various uses of Screening Equipment in construction work. **07**