

**GUJARAT TECHNOLOGICAL UNIVERSITY**

M.E Sem-II Examination July 2010

**Subject code:721402****Subject Name: Resources Management****Date: 06 /07 /2010****Time: 11.00am – 1.30pm****Total Marks: 60****Instructions:**

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

- Q.1** (a) Enlist factors affecting extent of mechanization. Discuss any three factors. **06**  
 (b) State and explain objectives of material management. **06**
- Q.2** (a) (i) Enlist Equipments for construction of a typical highly mechanized AIRPORT project for following tasks. **03**  
 (1) Earth work (2) Concrete pavement work.  
 (ii) Classify materials on different basis from material management view point. **03**  
 (b) (i) Explain numeric system of codification. **03**  
 (ii) Differentiate between Standard equipment and special equipment **03**
- OR**
- (b) (i) State functions of store. Discuss any one function of it. **03**  
 (ii) Give guide lines for replacement analysis for equipment in use and for new equipments. **03**
- Q.3** (a) Discuss managerial skills required for material management. **06**  
 (b) Discuss in details following factors responsible for selection of equipment. **06**  
 (1) Specific job to be performed.  
 (2) Mobility required of the equipment planning.
- OR**
- Q.3** (a) Discuss various aspects of equipment planning. **06**  
 (b) Discuss complexities of material management in construction industry. **06**
- Q.4** (a) Enlist and explain factors to be considered for selection of hot mix plant. **06**  
 (b) Discuss (1) Right quality (2) Right price principles of purchasing. **06**
- OR**
- Q.4** (a) Enlist parts of concrete batching plant. State function of each briefly. **06**  
 (b) Describe overall process of procurement of materials. **06**
- Q.5** (a) Discuss assumptions underlying classical EOQ model. Sketch inventory profile of classical model. **06**  
 (b) Explain preventive maintenance and predictive maintenance. State advantages and disadvantages of the predictive maintenance. **06**
- OR**
- Q.5** (a) Describe step by step process of ABC analysis. State importance of ABC analysis. **06**  
 (b) Describe essential formalities to be taken for clearing of imported equipments. **06**

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