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## **MBCT-302(C)**

### **M.E./M.Tech., III Semester**

Examination, December 2020

### **Construction Equipment and Material Management**

**Time : Three Hours**

**Maximum Marks : 70**

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain in detail about Liquidated Damage.  
b) Discuss power shovels and aggregate processing plant.
2. Discuss the operation and application of the following construction equipments with neat sketches.
  - a) Hoisting equipment (any one)
  - b) Excavating equipment (any one)
3. a) What are the advantages of mechanization of construction industry?  
b) Discuss on selection of construction machinery and equipments in a project.
4. Explain the following
  - i) Obsolescence
  - ii) Tabular analysis
5. Compare the following:
  - a) Capable controlled bulldozer and hydraulic controlled bulldozer.
  - b) Wheel mounted bulldozer and crawler mounted bulldozer.

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6. a) Provide a detail note on the techniques of project selection and discuss the role of project cost forecasting break even analysis in project selection.  
b) What is mean by CPM?
  
7. a) Explain the transportations model and waiting line models in equipment management.  
b) Write the application of CPM in equipment management.
  
8. Explain the following
  - a) Merits of labour intensive construct
  - b) Transportation model in equipment management
  - c) Principles of analysis of rates
  - d) Application of the assignment model.

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