

**B.Tech. Civil (Construction Management) /  
B.Tech. Civil (Water Resources Engineering)**

**Term-End Examination  
December, 2012**

**ET-524(B) : CONSTRUCTION MANAGEMENT-I**

*Time : 3 Hours*

*Maximum Marks : 70*

*Note : Question No.1 is compulsory. Attempt any four questions from the remaining. Use of calculator is permitted. Missing data can be assumed. Brief and to the point answer in your own language will be accredited.*

1. (a) A construction schedule is prepared after collecting : 7x2=14
- (i) Number of operations
  - (ii) Output of labour
  - (iii) Output of machinery
  - (iv) Quantity of various items
  - (v) All the above
- (b) The salient feature of functional organization is :
- (i) strict adherence to specification
  - (ii) separation of planning and design part
  - (iii) each individual maintains functional efficiency

- (iv) work is properly planned and distributed
  - (v) All the above
- (c) The main principles of an organization is :
- (i) unity of command
  - (ii) cohesion
  - (iii) effective control
  - (iv) delegation of authority
  - (v) All the above
- (d) Site order book is used for recording :
- (i) instructions by the executive engineers.
  - (ii) construction measurements
  - (iii) issue of store equipments
  - (iv) Attendance of the casual labour
- (e) Various activities of a project are shown on bar charts by :
- (i) vertical lines
  - (ii) horizontal lines
  - (iii) dots
  - (iv) crosses

- (f) Pickup the correct step used for scheduling a project by CPMS.
- (i) A project is divided into various activities.
  - (ii) Required time for each activity is established.
  - (iii) Sequence of various activities is made according to their importance.
  - (iv) Network is drawn by connecting the activities and the events.
  - (v) All the above.
2. (a) What is mean by Resources allocation ? Explain briefly. 7
- (b) What is Resources smoothing ? Clearly define and explain in details. 7
3. (a) What is project management ? Explain in detail. 7
- (b) How many number of phases are there in construction project management ? Explain each in brief. 7
4. (a) Write down the role of decision making in project management. 7
- (b) Write down the methods of planning and programming. 7

5. (a) Write down the full form of the following terms. 7
- (i) CPM
  - (ii) PERT
  - (iii) GERT
  - (iv) PDM
  - (v) DCPM
  - (vi) UNETICS
  - (vii) SCANS
- (b) Write down regarding development of bar charts and Milestone charts. 7
6. (a) Write down the shortcomings of bar charts. 7  
What are the remedial measures ?
- (b) Write down regarding development of Network Technique. 7
7. (a) Write down the probability distribution theory. 7
- (b) Write down regarding Beta distribution and also explain expected time. 7
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