

B.Tech IV Year I Semester (R09) Regular & Supplementary Examinations December 2014

**CONSTRUCTION TECHNOLOGY & PROJECT MANAGEMENT**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Write short notes on:  
(i) Free float.  
(ii) Slack of the event.  
(iii) Supercritical activity.  
(b) Compare CPM & PERT networks with examples.
- 2 List of records/documents the owners must have at starting of the project and at the end of the project.
- 3 (a) Define caisson. Write about open caisson in brief.  
(b) What is dredging? What are uses of dredging?
- 4 (a) What are the factors that contribute to the selection of drilling method and equipment?  
(b) What is pre splitting? When is pre splitting done?
- 5 (a) Write short notes on prefabrication and its scope in India.  
(b) Project site selection depends on many factors. Discuss.
- 6 (a) What is the role of decision making in project management?  
(b) What is a mile stone? In what terms are they superior to bar chart method of representation?
- 7 (a) What is work break down structure (WBS)? Write a short notes on importance of WBS in developing a network?  
(b) Draw a PERT network for the following project:  
(i) A is the first start event and K is the end event.  
(ii) J is the successor event to F.  
(iii) C & D are the successor events to B & B succeeds A.  
(iv) D is preceding event to G.  
(v) E & F occurs after event C.  
(vi) E precedes F.  
(vii) C restrains the occurrence of G & G precedes H.  
(viii) H precedes J.  
(ix) F restrains the occurrence of H.  
(x) K succeeds event J.
- 8 (a) Write about beta probability distribution.  
(b) ( Discuss the importance of 3 estimates in PERT.

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