

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-Vth Examination December 2010

Subject code: 152505

Subject Name: Project Management

Date:

Time: 03.00 pm - 05.30 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) Name different project parameters and explain scope triangle with suitable example 07
 (b) Describe phases of Project Management in brief 07
- Q.2** (a) What do you mean by POS? Explain different parts of POS clearly. 07
 (b) Explain Matrix structure of project management organization. 07

OR

- (b) Describe Project approval process in detail with suitable example 07
- Q.3** (a) Explain top-down approach to Work Breakdown Structure (WBS) with an example 07
 (b) Explain methods of estimating Activity Duration during Project Analysis. 07

OR

- Q.3** (a) Describe Milestone chart with suitable example 07
 (b) Describe different criteria to test completeness of Work Breakdown Structure (WBS) 07

- Q.4** (a) A project consists of 8 events having relationship as under. Draw the network. 07

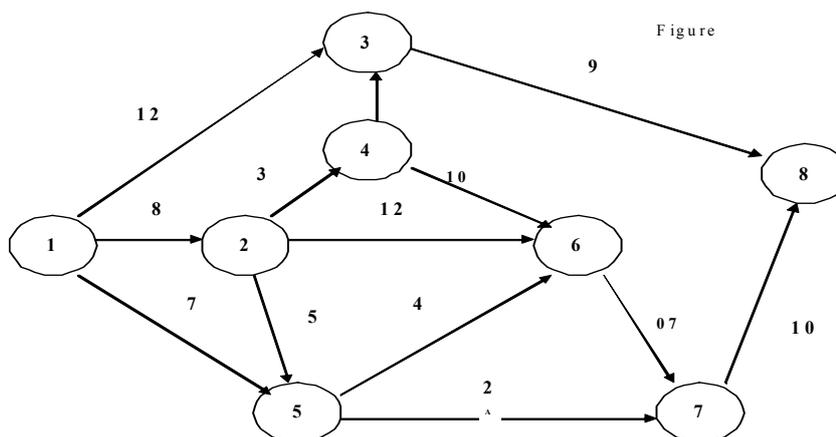
event	Immediate predecessor	event	Immediate predecessor
A	-	E	C,D
B	A	F	C,E
C	A	G	F
D	B,C	H	D,G

- (b) Explain different types of floats and their significance with suitable example 07

OR

- Q.4** (a) What do you mean by Crashing? Explain Crashing of a project with an example 07
 (b) Explain steps to generate Project Network Diagram using JPP (Joint Planning Process) Session 07

- Q.5** (a) The critical path network analysis is given in Figure. The activity times are also given for each activity. Determine the critical path and critical path time. Also determine the floats for each activity. 10

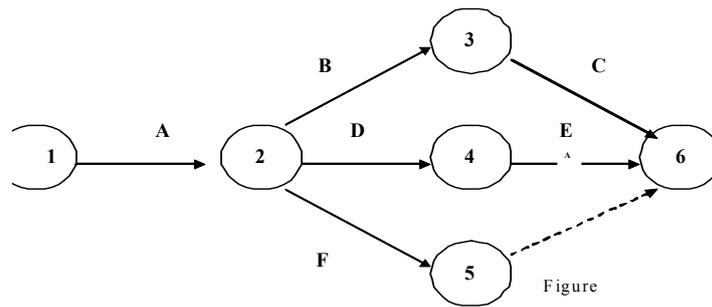


(b) Describe various time estimates used in PERT in detail.

04

OR

Q.5 (a) For the network shown in the Figure activity, resource requirements are given in the table. Solve the problem for resource allocation. There are two cranes and 8 welders available for the project. 10



Table

Activity	A	B	C	D	E	F
Duration Days	10	10	8	14	3	9
Resources Required	-	2 Cranes	8 Welders	6 Welders	-	1 Crane

(b) What is the different between PERT and CPM? Explain in brief

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