GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V • EXAMINATION – SUMMER 2013

Subje	ect C	Code: 152505 Date: 23-05-20	013
Subje Time Instrue	ect N : 10. ctions 1. 2. 3.	I ame: Project ManagementTotal Marks:.30 am - 01.00 pmTotal Marks::Total Marks:Attempt all questions.Make suitable assumptions wherever necessary.Figures to the right indicate full marks.	: 70
Q.1	(a)	Differentiate between (i) project and program. Explain elements of	07
	(b)	State and explain various network rules.	07
Q.2	(a)	Explain (i) scope creep (ii) hope creep (iii) effort creep (iv) feature creep.	07
	(b)	Enlist various project characteristics to define classification of project. Give example of type A project. State characteristics of type A project.	07
	(b)	Enlist & explain six criteria to test completeness in the WBS.	07
Q.3	(a)	Explain conditions of satisfaction (COS). Discuss importance of COS. Describe the process for developing COS.	07
	(b)	What is project definition statement (PDS)? Discuss purpose of PDS.	07
Q.3	(a) (b)	OR What is risk analysis worksheet? How is it prepared? Discuss need of quality management. Describe any one quality management model.	07 07

Q.4 (a) For the given data determine critical path and project duration. Also 07 prepare table of floats.

Activity	А	В	С	D	Е	F	G
Just preceding	-	-	Α	А	В	В	D,
activity							E
Duration (days)	10	9	7	9	8	5	11

(b) Explain 1.Dummy activity.(03) 2. Fulkerson's rules for numbering the 07 events of a network.(04).

OR

Q.4 (a) The time estimates for three activities A,B and C are as follows: 07

Optimistic time Most likely Pessimistic time time 10 12 14 А 8 12 В 6 С 5 12 10

Determine expected time and variance for each activity. Which activity has more reliable time estimates?

- (b) Describe step by step procedure for resource leveling.
- Q.5 (a) Discuss joint planning session to develop POS.

Activity	Normal	Normal	Crash	Crash Cost
	Duration	Cost (Rs)	Duration	(Rs)
	(Weeks)		(Weeks)	
1-2	6	7000	3	14500
1-3	8	4000	5	8500
2-3	4	6000	1	9000
2-4	5	8000	3	15000
3-4	5	5000	3	11000

(b) Data for durations and costs of each activity are given in table.

The indirect cost of the project is Rs.3000 per week. Determine the optimum cost of the project and the corresponding project duration.

- Q.5 (a) Differentiate between 1. CPM & PERT. 2. Direct cost & indirect cost. 07
 - (b) Enlist & explain briefly various methods to estimate activity duration. 07

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