Seat No.: Enrolment No.

Subject Code: 152505

Time: 10.30 am - 01.00 pm

Subject Name: Project Management

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - WINTER • 2014

Date: 08-12-2014

Total Marks: 70

Inst	ructio	ns:											
	1. 2. 3.	Attempt all qu Make suitable Figures to the	assum	ptions			essary.						
Q.1	(a) (b)	Explain variou Suppose the so occupies the co- this triangle as specific resour projects? As p specific.	scope enter, if it vece on	triang and the were a your	le wer e three syster projec	e mod sides n in ba t is co	lified a are Sco alance. oncurre	ns follope, C What ontly a	ows: Rost, and is like	Resourced Scheol ly to held to me	dule. I appen ore ar	nterpret when a nd more	
Q.2	 Q.2 (a) Write short note of Risk management and explain their Classificat (b) Give detail description for Rules of Project network diagram. OR 							ion.					
	(b)	Discuss import	tance o	of COS	and a	_		how to	devel	op COS	S ?		0
Q.3	(a) (b)	Explain the basic parts and function of the Project Overview Statement (POS). Describe Six Criteria to Test for Completeness in the work breakdown structure (WBS)											
Q.3	(a) (b)	Facilitator, Project manager, JPPS consultant, Technographer, Client representative in joint project planning Session.											
Q.4	•						ors with	0					
	(b)	suitable example. Why Critical path is required to be found out in PERT? Enlist various time estimate in PERT. Also Enlist various methods to estimate activity duration. OR											
Q.4								ge of o	crashing	0			
	(b)	Construct a ne Activity			e prede C	cessor	relatio	n sho	w in tal	ole H	K	L	0
		Predecessor	-	A	A	В	C	C	D,E	G,F	G	H,K	
Q.5	(a)	Differentiate C	PM aı	nd PEF	T in d	etail a	nd also	state	their ap	plication	on		0

		Duration in Weeks				
Activity	Predecessor	Optimistic	Pessimistic	Most likely		
		time t _o	time t _p	time t _m		
A	-	1	7	1		
В	-	1	7	4		
С	-	2	8	2		
D	A	1	1	1		
Е	В	2	14	5		
F	C	2	8	5		
G	D,E	3	15	6		

OR

- Q.5 (a) Define following terms
 - (1) Event (2) Total Float (3) Activity (4) LFT (5) Dummy Activity (6) EST (7) Critical Path
 - (b) For the network relationships given in Table with the three estimates of time in days, what is the probability that the project will be complete in 20 days? Also identify the critical path.

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Activity	Optimistic time t _o	Most likely time	Pessimistic time		
		$t_{\rm m}$	$t_{\rm p}$		
1-2	2	2	8		
2-4	0.5	2.5	7.5		
2-3	1	1.5	11		
3-4	0	0	0		
4-5	6	7	8		
3-5	1	2.5	7		
4-6	3	4	11		
5-6	4	6	8		
3-6	1	2	3		

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