GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VIII • EXAMINATION – WINTER • 2014

Subject Code: 182506 Subject Name: Managing Projects Time: 02:30 pm - 05:00 pm Instructions:

Total Marks: 70

Date: 25-11-2014

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Q.1 (a) A small project of seven activities whose time estimates (in Months) and other 10 characteristics are given below:

Activity	Immediate Predecessor	Time (Months)
Α	-	4
В	-	6
С	А	2
D	В	6
Ε	С, В	3
F	С, В	3
G	D, E	5

Draw AOA network. Find the critical path and project duration. Also find the total slack for each activity.

(b) Draw AOA network for the following projects:

Activity	Immediate Predecessor
Α	-
В	А
С	А
D	А
Ε	C, D
F	D
G	Е
Н	G
Ι	F, H
J	B, I

- Q.2 (a) Discus project life cycle in detail. 07
 - Discuss role of Project Manager

(b)

OR

- (b) Discuss the skill required for selection of project manager.
- Q.3 (a) Describe why planning is so important, and list the steps involved in detailed 07 planning.
 - (b) What is work breakdown structure? What is responsibility matrix? How are they 07 related?

OR

Q.3 (a) There exists a trade-off between activity duration and the associated cost. Discuss
07 the time/cost trade off in project management. When should one resort to crashing? Discuss.

07

07

04

	(b)	What is meant by Scope Creep and Change Control? Discuss	07
Q.4	(a) (b)	Discuss Social Cost Benefit Analysis (SCBA) of Project. Discuss steps in Project Closing Process.	07 07
		OR	
Q.4	(a)	What is matrix organization? How is it better from Project type Organization?	07
C		Discuss.	
Q.4	(b)		
Q.5	(a)	What is EVA? Define BCWP, BCWA, and ACWP. Show all three parameters on a chart.	07
	(b)	Discuss methods of Budgeting a Project.	07
		OR	-
Q.5	(a)	What id Resource loading? How does it differ from resource leveling?	04
~ ~	(b)	The following table gives for each activity of a project, its duration and	10
	(0)	corresponding resource requirements as well as total availability of each type of	10
		resource:	

Activity	Duration (Months)	Manpower Required
1 – 2	4	10
1 – 3	5	4
2 - 3	8	5
2 - 4	8	2
3 – 4	4	7

The maximum **Manpower = 10**

Under the given resource constraints find out the minimum duration to complete the project and compare the utilization of resources for that duration.
