

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEM-VIII Examination May 2012

Subject code: 182506

Subject Name: Managing Projects

Date: 08/05/2012

Time: 10.30 am – 01.00 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)** The following table provides the information necessary to construct a project network and project crash data. Construct the project network using AON. Find the critical path using CPM method and crash the project maximum amount possible. **10**

Activity	Immediate Predecessor	Normal Time	Normal Cost	Crash time	Crash Cost
A	-	16	2000	8	4400
B	-	14	1000	9	1800
C	A	8	500	6	700
D	A	5	600	4	1300
E	B	4	1500	2	3000
F	B	6	800	4	1600
G	C	10	3000	7	4500
H	D,E	15	5000	10	8000

- (b)** Explain project charter. **04**

- Q.2 (a)** What is organizing a project? Explain Project organization, Functional organization and Matrix organization in relation to project. **07**

- (b)** Explain responsibility of “Project Manager”. **07**

OR

- (b)** What are the different skills required to be a good Project Manager? Explain **07**

- Q.3 (a)** Explain work breakdown structure with an example. **07**

- (b)** Explain Scoping out the project. **07**

OR

- Q.3 (a)** Explain RACI matrix with an example. **07**

- (b)** Explain Scope Creep and Change Control in project management. **07**

- Q.4 (a)** What is budgeting a project? Explain Top Down and Bottom Up approach of budgeting a project. **07**

- (b)** Explain the process of “Auditing a Project”. **07**

OR

- Q.4 (a)** What is project completion report? Explain different elements to be **07**

- addressed in project completion report.
- (b) Explain Budget Uncertainty. 07

- Q.5 (a)** A project having 11 activity with the following activity duration and manpower requirements is given: 10

Activity	1-2	1-3	1-4	2-5	2-6	3-7
Duration	2	2	0	2	5	4
Man power requirement	5	4	0	2	3	6

Activity	4-8	5-9	6-9	7-8	8-9
Duration	5	6	3	4	6
Man power requirement	2	8	7	4	3

Draw the network diagram of the project indicating the ES, EF, LS, and LF and float each activity.

There are 11 persons who can be employed for this project. Carryout the appropriate manpower leveling so that the fluctuation of work force requirement from day to day is as small as possible.

- (b) Give difference between Project Management and General Management. 04

OR

- Q.5 (a)** What is Earned Value? Explain BCWS, ACWP, and BCWP. 10

Suppose a project is in progress and as of today the planned expenditures for the project were to have been Rs.5,00,000. Suppose also that there were five tasks and the tasks had budgets of Rs.30,000, Rs.100,000, Rs.250,000, Rs.100,000, and Rs.20,000, respectively. The actual cost of each of the tasks that were worked on was Rs.11,000, Rs.120,000, Rs.230,000, Rs.105,000, and Rs.20,000. Tasks 1, 2, 3, and 4 are complete. What are the BCWS, ACWP, and BCWP?

- (b) Give difference between PERT and CPM. 04
