

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – SUMMER • 2014****Subject Code: 152505****Date: 24-06-2014****Subject Name: Project Management****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)** Explain project life cycle with each stage in detail **07**
(b) What is the role of project manager? Explain in detail **07**

- Q.2 (a)** Draw a Gantt chart for a project of installing a railway station involving activities as shown in the table below. **07**

Activity	Duration (days)	Predecessor
A	5	-
B	10	A
C	15	-
D	5	B,C
E	10	-
F	5	E

Calculate the total project duration.

- (b)** Suppose if you want to construct a house, define the scope of the project and identify the deliverables. Develop a work breakdown structure for the project. **07**

OR

- (b)** Describe rules of construction of project network diagram in detail **07**

- Q.3 (a)** What do you mean by Joint Project Planning? Explain JPP in detail with suitable example **07**

- (b)** Describe attributes and measures of a Project of your choice **07**

OR

- Q.3 (a)** Using a real life example, state how environment factor is the key deciding factor for project appraisal **07**

- (b)** Explain methods for project appraisal in detail **07**

- Q.4** From the following data of normal time, normal cost and crash time, crash cost, construct a network by crashing to its optimum level and identify the total project time duration and cost. Indirect cost is Rs 100/day **14**

Activity	Normal		Crash	
	Time(days)	Cost (Rs)	Time(days)	Cost (Rs)
1-2	2	380	1	400
2-3	6	500	4	520
2-4	8	2000	4	2500
2-5	7	350	6	600
3-4	3	350	2	360
4-5	6	510	4	520

OR

- Q.4 (a)** What do you mean by Resource leveling? Explain in detail with a case problem **07**
(b) Explain work package in detail with a case problem **07**

- Q.5 (a)** Describe following terminology **07**
EST, LST, LFT, EFT, Total float, Free Float with suitable example
- (b)** Explain classifications of projects in detail **07**
- OR**
- Q.5 (a)** Explain different between CPM and PERT in detail along with their applications **07**
- (b)** Which are the software used for project planning and management? Explain them in brief. **07**
