Seat No.:	Enrolment No.
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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:

Q.4

- 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

07

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

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

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.

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OR

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

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- Q.3 (a) What do you mean by Joint Project Planning? Explain JPP in detail with suitable example
 - (b) Describe attributes and measures of a Project of your choice

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OR

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

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07

(b) Explain methods for project appraisal in detail

14

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

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

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		
