

# GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019

Subject Code:2182506

Date:13/05/2019

Subject Name:Managing Projects

Time:10:30 AM TO 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)** Differentiate clearly between total float, free float and independent float. **03**

**(b)** A project has been defined to contain the following list of activities, along with **04**  
Their required times for completion:

Activity	A	B	C	D	E	F	G	H	I
Time(days)	1	4	3	7	6	2	7	9	4
Immediate Predecessors	----	A	A	A	B	C,D	E,F	D	G,H

Draw the critical path diagram and determine project duration.

**(c)** Table gives the data about durations & costs of various activities of the network **07**  
shown in figure. The project overhead cost are Rs. 2000 per week. Find the  
optimum duration & the cost associated with it. Also draw the least cost network.

Activity	Normal Time (weeks)	Normal cost (Rs.)	Crash Time (weeks)	Crash cost (Rs.)
1-2	4	4000	2	12000
2-3	5	3000	2	7500
2-4	7	3600	5	6000
3-4	4	5000	2	10000

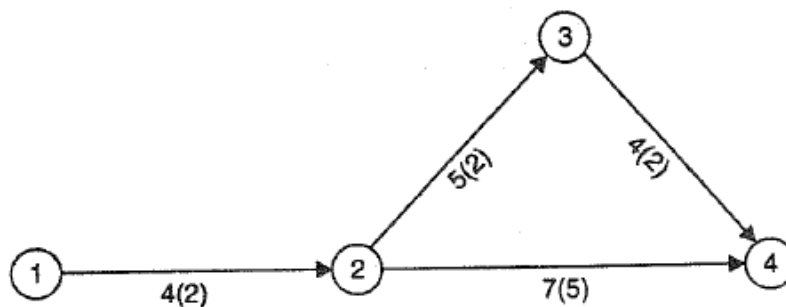


Figure-1

**Q.2 (a)** Define of project, program and portfolio with one example of each. **03**

**(b)** What is LRC ? Construct the LRC with any suitable example. **04**

**(c)** Enlist all steps of project portfolio process and explain any three of them. **07**

**OR**

**(c)** Explain the Project Manager's responsibility to the project. **07**

**Q.3 (a)** Why Project manager needs a good listening skill? **03**

**(b)** Briefly describe the Pure Project Organization. **04**

**(c)** Discuss the different elements of Project Planning. **07**

**OR**

- Q.3** (a) What is the Game theory approach? **03**  
 (b) List the characteristic of effective members in a project team. **04**  
 (c) What are the selection criteria of a project manager? Explain it. **07**

- Q.4** (a) Give the difference between PERT and CPM methods **03**  
 (b) Briefly explain the content of Project Overview Statement. **04**  
 (c) Explain stages of project life cycle with neat sketch. **07**

**OR**

- Q.4** (a) Prepare a sample project action plan for any project. **03**  
 (b) Explain why project oriented firms require excess resource capacity. **04**  
 (c) Discuss Budget uncertainty. **07**

- Q.5** (a) Define Earned Value, Planned value and Milestone. **03**  
 (b) A Project plan consisting of ten events have predecessor relationships as under: **04**

Event	Immediate Predecessor	Event	Immediate Predecessor
1	-	6	3,5
2	1	7	3,4
3	2	8	3,7
4	2	9	7
5	2	10	3,6,8,9

Draw the network diagram for the project plan.

- (c) Explain the process of Project Auditing. **07**

**OR**

- Q.5** (a) List out the main duties of Termination Manager. **03**  
 (b) Explain graphical guidelines (rules) for construction of network diagram. **04**  
 (c) How a Project can be controlled by Project Manager? What are the purposes of Project control? **07**

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