

K.J. SOMAIYA INSTITUTE OF MANAGEMENT STUDIES & RESEARCH
PGDM (EXECUTIVE) – 2017-18 BATCH
V TRIM – END TERM EXAM

Date : 19/12/2018

Time : 1.5 Hours

Marks : 25

Note : Answer any five question. Each Question carries 5 marks.

Q.1. A project consisting of 7 activities has the following relevant information (All duration are in weeks)

Activity	Optimistic Time	Most Likely time	Pessimistic Time
1 – 2	1	1	7
1 – 3	1	4	7
1 – 4	2	2	8
2 – 5	1	1	1
3 – 5	2	5	14
4 – 6	2	5	8
5 – 6	3	6	15

- (a) Draw the network and find critical path & Critical time of the project.
- (b) What is the probability that the project will be extended to 20 weeks.
- (c) Find the number of weeks required by the project manager to complete the project with a probability of 0.95.
- (d) Calculate EOT, LOT and Slack floats.

Q.2. The following table gives the activities in a project and other relevant information ::

Activity	Time in days		Cost in Rs.	
	Normal	Crash	Normal	Crash
1 – 2	8	6	100	200
1 – 3	4	2	150	350
2 – 4	2	1	50	90
2 – 5	10	5	100	400
3 – 4	5	1	100	200
4 - 5	3	1	80	100

- (a) Draw a network diagram of the project.
- (b) Determine the project duration which will result in minimum total direct cost.
- (c) If the indirect cost is Rs. 70/- per day, determine the optimum duration of the project.

Q.3. A Company promoted by Shri. Darshan is bidding on a contract to repair cooling towers. It has identified the activities along with their expected times, predecessors and workers requirements.

The contract specifies that the project must be completed in 14 weeks. What should be the minimum number of workers that needs to be assigned to this project, so that it can be completed in weeks ? (

Draw GANTT Chart & Network diagram)

Activity	Predecessors	Duration in week	Workers required
A	-	4	4
B	-	7	2
C	A	3	2
D	A	3	4
E	B	2	6
F	B	2	3
G	D,E	2	3
H	F,G	3	4

Q.4. Explain in details various stages of Project Life Cycle.

Q.5. Explain with illustrations about Project Identification & Formulation

Q.6 Write a Short note on DPR, WBS, Project Contracts.