



APJ Abdul Kalam Technological University
Ernakulam II Cluster

Third Semester M.Tech Degree Examination, December 2018

05ME7441- PRACTICAL PROJECT MANAGEMENT

Time: 3 hrs.

Max. Marks: 60

1. (a) Describe project planning. Explain three phases of project planning. (6 Marks)
- (b) Discuss the roles and responsibilities of a project manager. (6 Marks)
2. (a) Differentiate between PERT and CPM techniques? (6 Marks)
- (b) Considering the activity table below, Using CPM find
 - i. Critical path
 - ii. Time taken to finish the job
 - iii. Float of non critical activities

Activity	Duration (weeks)	Preceding Activity
A	9	-
B	2	A
C	3	A
D	7	B&C
E	6	D
F	1	E
G	4	D
H	5	G & F

(6 Marks)

MODULE 3

3. (a) What are the different techniques for financial evaluation of projects? What are the steps in solution of problems using
 - (i) Payback period
 - (ii) Internal rate of return method
 - (iii) Net present value method. (8 Marks)
- (b) A company is considering the following investment projects 'S' and 'L'

Year	Project S	Project L
0	-1000	-1000
1	500	100
2	400	300
3	300	400
4	100	600

Assume that cash flows are occurring at the end of each year, find out the NPV for these projects if the cost of capital is 10% for both the projects

(10 Marks)

OR

4. (a) Discuss the features of capital investment. (8 Marks)
- (b) An initial investment of Rs. 130,000 is expected to generate annual cash inflow of Rs. 32,000 for 6 years. Depreciation is allowed on the straight line basis. It is estimated that the project will generate scrap value of Rs.10500 at end of the 6th year. Calculate its accounting rate of return assuming that there are no other expenses on the project.

(10 Marks)

MODULE 4

5. (a) Explain the role of decision tree analysis in project management. (8 Marks)
- (b) Write short notes on Project Management Information System (PMIS). (10 Marks)

OR

6. (a) Describe the types of Project risk. How project risks can be managed? (8 Marks)
- (b) A project was begun on 1st January 2018 and was expected to be completed by 30th September 2018. The project is being reviewed on 30th June 2010 when the following information has been developed.

Budgeted cost for work schedule (BCWSS)	Rs 1,500,000
Scheduled cost for work performance (BCWP)	Rs 1,400,000
Actual cost for work performed (ACWP)	Rs 1,600,000
Budgeted cost for total work (BCTW)	Rs 2,500,000
Additional cost for completion (ACC)	Rs 1,200,000

Calculate

- i. Cost variance
- ii. Scheduled variance in cost terms
- iii. Cost performance index
- iv. Schedules performance index
- v. Estimated cost performance index.

(10 Marks)