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Total Number of Pages: 02

M.TECH
IMPE104

1st Sem Mtech Regular/ Back Examination 2015-16
PROJECT MANAGEMENT
BRANCH(S): INDUSTRIAL ENGINEERING AND MANAGEMENT
Time: 3 Hours
Max marks: 70
Q.CODE:T929

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (2 x 10)
- a) Differentiate between PERT and CPM
 - b) Explain work package.
 - c) What do you mean by LOB?
 - d) Describe graphical evaluation and review technique.
 - e) Explain importance of dummy activity.
 - f) Define the optimistic time, pessimistic time, most likely time and the expected time.
 - g) What are the possible responses to handle risk in a project?
 - h) Explain Fulkerson's i-j rule in detail.
 - i) Explain the SMART objectives of a project.
 - j) What is looping and dangling?
- Q2 a) Why CPM is more important for controlling large projects? Justify your answer. (5)
- b) Explain the following facets of Project Feasibility Study : (5)
- i) Market analysis
 - ii) Technical analysis
 - iii) Financial analysis
- Q3 a) Why should post-audit be done? What major information would you expect to find in a project audit? (5)
- b) "Management of materials and equipment forms the core of project management." – Discuss with supporting evidence. (5)
- Q4 Table below shown jobs, their normal time cost and crash time , cost (10)

Job	Normal time(days)	Cost (Rs.)	Crash time(days)	Cost (Rs.)
1-2	6	1400	4	1900

1-3	8	2000	5	2800
2-3	4	1100	2	1500
2-4	3	800	2	1400
3-4	Dummy activity			
3-5	6	900	3	1600
4-6	10	2500	6	2500
5-6	3	500	2	800

Indirect cost of the project is Rs: 300 per day

- i). Draw network of the project
- ii). What is normal duration of the project
- iii). Find the optimum duration and minimum project cost.

Q5 a) What is matrix organization? Discuss its advantages on Project Organization. (5)

b) You have been asked to develop a work breakdown structure for a project. How should you go about accomplishing this? Should the WBS be time-phased, department-phased, division-phased, or some combination? (5)

Q6 a) Explain the computerized project management information system and its importance on project control. (5)

b) What are the outlines of opportunity studies in project management? How do these impact project feasibility studies? (5)

Q7 a) What do you mean by project execution? What are the seven project execution steps? Describe all the steps in detail with appropriate project example. (6)

b) Why termination is necessary in project management? Discuss different ways in which a project can be terminated. (4)

Q8 Write short notes on any two (5 x 2)

- a) Resource allocation
- b) Break Even Analysis
- c) Project Network Techniques.
- d) Sequencing in Project Management.