

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 0482 Roll No.

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B.Tech.

(SEM VIII) EVEN SEMESTER THEORY EXAMINATION,
2009-2010

PROJECT MANAGEMENT

Time : 3 Hours

Total Marks : 100

- Note :**
- (i) Attempt *all* the questions.
 - (ii) All questions carry *equal* marks.
 - (iii) Be precise in your answer.
 - (iv) Assume suitable value for missing data if any.
 - (v) Use of standard normal distribution is *permitted*.

1. Attempt **any four** parts of the following : (4x5=20)
- (a) What is a Project ? Explain the important characteristic of a project.
 - (b) Distinguish between Modernisation project and Diversification project.
 - (c) What are the four stages in a project life cycle ?

(d) Describe project management as a conversion process. Highlight the various constraints and mechanisms.

(e) Give a brief account of different functional studies that may be conducted for studying project feasibility.

(f) Why is it necessary to define the complexity of a project ?

2. Attempt any two parts of the following : (2x10=20)

(a) Briefly describe the three basic types of matrix organisation.

(b) Discuss a typical tender document, keeping the interest of the firm issuing the tender in mind.

(c) Why the subject of organisational structure is so important ?

3. Attempt any two parts of the following : (2x10=20)

(a) What do you mean by 'Project appraisal' ? Why is commercial appraisal important ?

(b) What is modern approach to performance analysis of projects ? List the techniques available for the performance forecasting.

(c) Explain the need for 'preliminary and pre-operative expenses' and 'contingency' in project cost.

4. Attempt any one of the following : (1x20=20)

(a) The three estimates of a project are given below :

Activity	Optimistic time (to)	Most Likely Time (tm)	Pessimistic (tp)
1--2	4	6	14
1--3	7	11	15
2--4	6	15	18
3--4	2	5	8
4--5	6	10	14
3--5	7	16	19

Arrive at the critical path and find the expected project completion time. What is the probability that the project will be completed in 35 days ?

(b) Write notes on the following :

(i) Lowest cost schedule.

(ii) Event slack and floats.

(iii) Line of Balance technique.

5. Attempt any two parts of the following : (2x10=20)

(a) Describe the difference between activity-on-node and activity-on-arrow project network.

(b) What are the essential requirements of project management software ? List some of the package available.

(c) Discuss alternative techniques for improving the limitation of PERT/CPM technique.