



Name :

Roll No. :

Invigilator's Signature :

**CS/M.Tech(ECE)/SEM-1/MCE-101/2009-10
2009**

PROJECT MANAGEMENT

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives of the following : $10 \times 1 = 10$
 - i) Project crashing means
 - a) failure of a project
 - b) time cost trade off
 - c) breaking of the complete project into sub-parts
 - d) both (b) and (c).
 - ii) For a critical activity what is the relationship between total float, free float and independent float ?
 - a) Total float > Free float > Independent float
 - b) Total float > = Free float > = Independent float
 - c) Total float = Free float = Independent float
 - d) Total float < Free float < Independent float.



- iii) Which of the following instrument is used for financial appraisal for a project ?
- a) Current ratio b) Acid test
c) Discounted cash flow d) Debtor-period.
- iv) Network is used for
- a) repetitive projects
b) open ended project only
c) similar projects
d) non-repetitive projects.
- v) Which of the following is best used for financial appraisal and selection of projects ?
- a) Pay back method b) IRR
c) ROI d) Margin.
- vi) Commissioning of a project
- a) precedes installation of the project
b) succeeds installation of the project
c) has no relationship with installation of the projects
d) the relationship depends on specific situation.
- vii) Project cost reducing can be achieved through which of the following approach/technique ?
- a) Value engineering b) Line of balance
c) Feasibility study d) All of these.
- viii) A capital investment is one that
- a) has the prospects of long-term benefits
b) has the prospects of short-term benefits
c) is only undertaken by large corporations
d) applies only to investment in fixed assets.
- ix) What is the difference between PERT and CPM ?
- a) CPM takes less time than PERT
b) PERT is probabilistic, but CPM is not
c) Crashing can be done in CPM, but not in PERT
d) All of these.



- x) Which of the following is the most effective organization structure of a project driven company working at multi location over a globe ?
- Functional organization
 - Product organization
 - Matrix organization
 - Line and staff organization.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

- Define a project. Describe in brief the essential responsibilities to be performed by a project manager to complete the project successfully.
- Define project audit and its objectives.
- Define the concept of PERT.
- Write a short note on project life cycle costing.
- What are the benefits of Line of Balance (LOB) technique ?

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- Explain what do you mean by DPR.
 - Explain Technical Feasibility report in detail.
- From conception to completion the project development cycle consists of certain activities. Discuss.
 - Explain the components of project feasibility study report.
- “Time and cost overrun are two important aspects of project management.” — Discuss.
 - Define dummy activity, total float and slack.
 - What are the differences between PERT and CPM ?



10. Write short notes on any *three* of the following :

- a) MIS & project management
- b) Matrix organization
- c) Pay back period
- d) Organization break down structure
- e) Value engineering
- f) Cost of a project.

11. a) Financial institutions appraise a project from the marketing, technical, financial, economic and management angles. Discuss.

b) What do you understand by non-discounted and discounted project evaluation techniques ?

12. For a particular work-activitywise time estimates are available as under :

Activity	Optimistic (days)	Most-likely (days)	Pessimistic (days)
1 - 2	3	4	5
1 - 3	1	2	3
2 - 4	9	12	21
3 - 4	10	12	14
3 - 5	8	10	12
4 - 6	6	8	10
5 - 6	5	7	9

- a) Determine estimated time (average time) for various activities.
- b) The critical path of the work and the standard deviation of the critical path.
- c) What is the probability that the project will be completed in 26 days time ?

