Name :	S
Roll No. :	Andrew (Y Kanadala Ind Explored
Invigilator's Signature :	

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

# **PROJECT MANAGEMENT**

*Time Allotted* : 3 Hours

Full Marks : 70

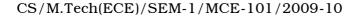
The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

# 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.

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- 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.

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- CS/M.Tech(ECE)/SEM-1/MCE-101/2009-10
- which of the following is the most effective organization structure of a project driven company working at multi location over a globe ?
  - a) Functional organization
  - b) Product organization
  - c) Matrix organization
  - d) Line and staff organization.

#### **GROUP – B**

## ( Short Answer Type Questions )

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

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

## GROUP – C ( Long Answer Type Questions )

#### Long Answer Type Questions)

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

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

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- 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 ?

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