



Printed Pages : 3

TME-803

(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) EXAMINATION, 2007-08

### PROJECT MANAGEMENT

Time : 3 Hours]

[Total Marks : 100

- Note :**
- (1) Attempt **all** questions.
  - (2) All questions carry **equal** marks.
  - (3) Be precise in your answers.

**1** Attempt any **four** parts :

- (a) Explain meaning and concept of project with examples.
- (b) Describe characteristics of a project.
- (c) What are various stages in the total life cycle of a project ? Explain with suitable diagram.
- (d) How are projects classified ? Explain in brief.
- (e) What are steps required in project identification ? Explain in brief.

**2** Attempt any **two** parts :

- (a) Describe functional organization. What are its limitations ?
- (b) Describe product organization. What are its advantages over functional organization ?
- (c) Explain in detail the method of choosing an organization structure to suit a given project.



- 3 Attempt any
- What principle is in mind while defining the cost and benefit of a capital expenditure proposal?
  - What are the components of cost in an industrial project? Discuss in brief.
  - Discuss various methods of project performance evaluation.

4 Attempt any **two** parts :

- Explain bar chart. What were the problems in bar charts that led to development of network techniques.
- What do you mean by CPM and PERT. Illustrate with examples the differences between CPM and PERT.
- Consider the PERT network involving six task (*a* to *f*)

<i>Task</i>	<i>Predecessor</i>	<i>Expected task time (day)</i>	<i>Variance in time (in day)</i>
<i>a</i>	—	30	25
<i>b</i>	<i>a</i>	40	64
<i>c</i>	<i>a</i>	60	81
<i>d</i>	<i>b</i>	25	9
<i>e</i>	<i>b, c</i>	45	36
<i>f</i>	<i>d, e</i>	20	9

**Calculate :**

- The expected completion time of the project.
- The standard deviation of the critical part of the project.



5 Attempt any **two** parts :

- (a) A small project consists of jobs in the table given below with each job is listed, its normal and minimum time. The cost of crashing is also given.

<i>Job</i>	<i>Normal duration (day)</i>	<i>Crash duration (day)</i>	<i>Cost of crashing</i>
1-2	9	6	<i>Rs. 20 per day</i>
1-3	8	5	25
1-4	15	10	20
2-4	5	3	10
3-4	10	6	15
4-5	2	1	40

*Calculate :*

- (i) Normal duration of project and minimum project duration.
  - (ii) Minimum crashing costs schedules.
  - (iii) Optimal duration of project schedule, if overhead cost is Rs. 60 per day.
- (b) What are essential requirements of a PM software package ?
- (c) Explain the following :
- (i) Enterprise wide project management.
  - (ii) Use of Lotus - 1, 2, 3; or MS Excel in developing financial projections.

