Printed Pages: 4 | 159 | EPL-032/EME-032

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

Paper ID : 140752    Roll No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

**B.Tech.**

**(SEM. VII) THEORY EXAMINATION, 2015-16**

**PROJECT MANAGEMENT**

[Time:3 hours]      [MaximumMarks:100]

**Section-A**

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short.    (10×2=20)

    (a) Define the term 'Project'.

    (b) What is feasibility study? Name the different stages.

    (c) What is earnest money deposit (EMD)?

    (d) How functional organization works?

    (e) Name the different components of cost in an industrial project.

    (f) What are various aspects of technical appraisal?

    (g) What do you understand by dangling?

    (h) Write Fulkerson's rule for numbering.

16400      (1)      P.T.O

(i) Draw a CPM network diagram for the following project.

| Activity | Preceding Activity | Duration (Week) |
|----------|--------------------|-----------------|
| A | - | 11 |
| B | - | 3 |
| C | - | 5 |
| D | A | 0 |
| E | A | 2 |
| F | B | 1 |
| G | B | 12 |
| H | E,F | 6 |
| I | D,H | 7 |
| J | E | 3 |

(j) Discuss the complexity of project scheduling with limited resources.

## Section-B

**Attempt any five parts from this section:** (10×5-50)

2. Explain taxonomy of projects.

3. Explain the different sources from which new projects can be formed?

4. What are techniques of effective project control?

5. How do the ideas of the 'seamless enterprise' differ from those functional and matrix management?

6. What is organization structure? How organization structure is being slected?

7. What is meant by 'Project appraisal'? Discuss.

8. What are the essential requirements of project management software? List some of packages availabe.

9. Discuss precedence diagramming method with example.

## Section-C

**Attempt any two questions from this section: (2×15=30)**

10. i) For the table given draw the network diagram. Find out critical path and also find out project duration.

| Activity | Normal Time (C) Weeks | Cost (a) | Crash Time (d) Weeks | Cost (b) | Cost Slope (b-a)/(c-d) 100 |
|----------|-----------------------|----------|----------------------|----------|----------------------------|
| 1-2 | 3 | 300 | 2 | 400 | |
| 2-3 | 3 | 30 | 3 | 30 | 0 |
| 2-4 | 7 | 420 | 5 | 580 | 80 |
| 2-5 | 9 | 720 | 7 | 810 | 45 |
| 3-5 | 5 | 250 | 4 | 300 | 50 |
| 4-5 | 0 | 0 | 0 | 0 | 0 |
| 5-6 | 6 | 320 | 4 | 410 | 45 |
| 6-7 | 4 | 400 | 3 | 470 | 70 |
| 6-8 | 13 | 780 | 10 | 900 | 26.66 |
| 7-8 | 10 | 1000 | 9 | 1200 | 200 |

ii) If the indirect cost per week is Rs.50, then crash the project for minimum time duration at minimum cost.

11. Discuss a typical tender document, keeping the interest of the firm issuing the tender in mind.

12. What are techniques of effective project control? Discuss in detail.

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