**18MEI02**

**Hall Ticket Number:**

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| **IV/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **December, 2021** | **Institutional Elective** | | |
| **Seventh Semester** | **PROJECT MANAGEMENT** | | |
| **Time:** Three Hours | | **Maximum:** 50 Marks | |
| *Answer Question No.1 compulsorily.* | | | (10X1 = 10 Marks) |
| *Answer ONE question from each unit.* | | | (4X10=40 Marks) |
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| 1. | a) | What is Project Management? | CO1 |  |
|  | b) | List any three benefits of Project Management. | CO1 |  |
|  | c) | Classify the types of projects | CO1 |  |
|  | d) | What is the difference between CPM & PERT? | CO2 |  |
|  | e) | What is cost scheduling in project management? | CO2 |  |
|  | f) | Define free float of an activity. | CO2 |  |
|  | g) | What is the difference between autocratic and democratic leadership style? | CO2 |  |
|  | h) | How critical path is determined in network analysis? | CO3 |  |
|  | i) | What makes a good team in project management? | CO3 |  |
|  | j) | What is the project management maturity model ? | CO3 |  |
| **Unit -I** | | | | |
| 2. |  | What are the different phases of the project of project life cycle? Explain with diagram. | CO1 | 10M |
| **(OR)** | | | | |
| 3. | a) | Discuss objectives of Project Management. | CO1 | 5M |
|  | b) | Justify the statement “Association and not isolation is the watch word in Project  Management” in the context of systems approach to Project Management. | CO1 | 5M |
| **Unit -II** | | | | |
| 4. | a) | |  |  |  |  | | --- | --- | --- | --- | | Activity | Time | Activity | Time | | 1-2 | 10 | 6-7 | 8 | | 1-3 | 8 | 6-9 | 5 | | 1-4 | 9 | 7-10 | 12 | | 2-5 | 8 | 8-10 | 10 | | 3-7 | 16 | 9-10 | 15 | | 4-6 | 7 | 10-11 | 8 | | 5-7 | 7 | 11-12 | 5 | | 5-8 | 7 |  |  |   The following table shows the jobs of a project with their duration in days. Draw the network and determine the critical path. | CO2 | 10M |
| **P.T.O.**  **18MEI02**  **(OR)** | | | | |
| 5. | a) | A small project consisting of ten activities has the following characteristics  (i) Draw the PERT network for the project.  (ii) Prepare the activity schedule for the project.  (iii) Determine the critical path.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | *Activity* | *Predecessor(s)* | *Time estimates(Week)* | | | | *Optimistic* | *Most likely* | *Pessimistic* | | *A* | *-------* | *4* | *5* | *12* | | *B* | *---------------* | *1* | *1.5* | *5* | | *C* | *A* | *2* | *3* | *4* | | *D* | *A* | *3* | *4* | *11* | | *E* | A | *2* | *3* | *4* | | *F* | C | *1.5* | *2* | *2.5* | | *G* | *D* | *1.5* | *3* | *4.5* | | *H* | *B, E* | *2.5* | *3.5* | *7.5* | | *I* | *H* | *1.5* | *2* | *2.5* | | *J* | *F, G. I* | *1* | *2* | *3* | | CO2 | 10M |
| **Unit -III** | | | | |
| 6. | a) | Explain in brief the methods for estimating project times and costs. | CO3 | 5M |
|  | b) | How do you plan and manage resources? | CO3 | 5M |
| **(OR)** | | | | |
| 7. |  | Describe measures for evaluating project performance with examples | CO3 | 10M |
| **Unit -IV** | | | | |
| 8. | a) | FindExplain the concept of organisation structure | CO4 | 5M |
|  | b) | Discuss about various leadership styles in project management | CO4 | 5M |
| **(OR)** | | | | |
| 9. |  | Discuss about the Project Management Maturity Model with neat sketches | CO4 | 10M |

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