B.E. / B.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023
Seventh Semester
Mechanical Engineering
20ITOE909 - SOFTWARE PROJECT MANAGEMENT SYSTEMS
(Regulations 2020)

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer All Questions

		Marks, K-Level, CO
1.	Which factor is decided the success of project?	2,K2,CO1
2.	Mention the characteristics of software projects.	2,K2,CO1
3.	How the cost-benefit analysis can be done?	2,K2,CO2
4.	What is the significance of project risk matrix give example?	2,K2,CO2
5.	Define the objective of activity planning.	2,K2,CO3
6.	What do you understand by work breakdown structure?	2,K2,CO3
7.	Define Bespoke.	2,K1,CO4
8.	Draw the project control cycle mode.	2,K2,CO4
9.	What is Maslow's hierarchy needs?	2,K1,CO5
10.	List the steps involved in selecting the right person for the job.	2,K2,CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11. a) Give an outline of step wise planning activities for a project with neat diagram.   13,K1,CO1

OR

   b) Describe how cost- benefits evaluation techniques & its methods with examples.   13,K3,CO1

12. a) Discuss the spiral software development life cycle model with diagrammatic illustration. What are spiral model strengths? What are the spiral model deficiencies? When to use spiral model? Discuss.   13,K2,CO2

OR

   b) Evaluate the risk involved in a project and suggest appropriate strategies for minimizing the potential cost.   13,K3,CO2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12208**

13. a) Define PERT and explain the three estimates in PERT with example. *13,K2,CO3*

OR

b) Explain Network planning model. Explain with an example how critical path can be identified in precedence networks. *13,K3,CO3*

14. a) Explain the steps in managing contract under ISO 12207 approach. *13,K2,CO4*

OR

b) Outline the use of Gantt charts and timeline charts in visualizing project progress with suitable diagrams. *13,K3,CO4*

15. a) Explain the Oldham-Hackman job characteristic model. Give the Vroom's Expectancy theory. *13,K2,CO5*

OR

b) Discuss leadership models. Explain function of a leader with an example. *13,K3,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain the COCOMO II parametric productive model in detail with the steps in effort estimation technique. *15,K3,CO6*

OR

b) Demonstrate the term decision making in the process of managing people and organizing teams. *15,K2,CO6*