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BTECH
(SEM VI) THEORY EXAMINATION 2024-25
SOFTWARE PROJECT MANAGEMENT

TIME: 3 HRS

M.MARKS: 100

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20

Q No.	Question	CO	Level
a.	What are the three activities of SPM?	1	K1
b.	Why is project closure important in project management?	1	K1
c.	List different stages of project life cycle.	2	K1
d.	Name different types of cost estimation technique.	2	K1
e.	What is activity planning? List its objectives.	3	K1
f.	What is project schedule?	3	K1
g.	Define project tracking.	4	K1
h.	Name two tools used for cost monitoring.	4	K1
i.	What is the Oldham Hackman model?	5	K1
j.	What is the significance of dispersed teams?	5	K1

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

Q No.	Question	CO	Level
a.	Describe the activities and importance of Software Project Management.	1	K2
b.	Describe the Rapid Application Development (RAD) model. How is it different from the Agile methods?	2	K2
c.	Explain how Monte Carlo simulation is used in risk assessment.	3	K2
d.	What do you understand by "Earned Value Analysis"? Discuss the following Progress indicators: (i) Cost Variance (ii) Cost Performance Index (CPI)	4	K2
e.	Describe the importance of leadership and communication in managing software project teams.	5	K2

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

Q No.	Question	CO	Level
a.	Describe the categorization of software projects. How do these categories affect planning and execution?	1	K2



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b.	Explain the process of cost-benefit evaluation and its significance in project planning.	1	K2
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4. Attempt any one part of the following: 10 x 1 = 10

Q No.	Question	CO	Level
a.	Outline COSMIC full function points for software cost estimation.	2	K2
b.	Discuss effort and cost estimation techniques in software project management.	2	K2

5. Attempt any one part of the following: 10 x 1 = 10

Q No.	Question	CO	Level
a.	What is risk management? Describe the complete process of risk identification, assessment, and mitigation.	3	K2
b.	Explain network modeling and its significance in activity planning. Discuss Forward Pass and Backward Pass methods.	3	K2

6. Attempt any one part of the following: 10 x 1 = 10

Q No.	Question	CO	Level
a.	How is Software Configuration Management carried out? What are its core functions?	4	K2
b.	Explain the importance of management contracts and contract management in project control.	4	K2

7. Attempt any one part of the following: 10 x 1 = 10

Q No.	Question	CO	Level
a.	Discuss in detail about the best methods of staff selection motivation.	5	K2
b.	Explain ethical and health considerations for staff in long-term software development projects.	5	K2