PAPER ID-310240

Roll No:

BTECH
(SEM VII) 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.	Explain primary objectives of SPM?	1	K2
b.	Discuss different types of project plans.	1	K1
c.	Explain the purpose of network diagrams in project scheduling?	2	K2
d.	Explain the role of the critical path in CPM.	2	K2
e.	Define SPI.	3	K1
f.	Explain Schedule Variance.	3	K2
g.	Define Software Quality Assurance.	4	K1
h.	Explain Program verification.	4	K2
i.	Discuss change request management.	5	K1
j.	Define Risk.	5	K1

SECTION B

2.   Attempt any *three* of the following: **10 x 3 = 20**

Q no.	Question	CO	Level
a.	Illustrate the structure of a Software Project Management Plan (SPMP). What are the key sections included in an SPMP, and how does each section contribute to the overall project management process?	1	K3
b.	What you understand by work break structure (WBS)? What are the various types of WBS? What is the role of WBS directory and what the contents of it? Explain.	2	K1
c.	Explain Error Tracking and Cost Variance in detail.	3	K2
d.	Discuss Testing objectives and Levels of Testing.	4	K1
e.	Explain various types of risk associated with software project.	5	K2

SECTION C

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

Q no.	Question	CO	Level
a.	Explain the term SPM. Also discuss SPM framework in detail.	1	K2
b.	What are the objectives of software project planning. Why is it considered a critical activity in software project management?	1	K1

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

Q no.	Question	CO	Level
a.	What are the stages of the project life cycle, and how do they differ from the stages of the product life cycle?	2	K1

PAPER ID-310240

Roll No:

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

TIME: 3 HRS **M.MARKS: 100**

b.	What are Milestone Charts and Gantt Charts, and how do they help project managers track the progress of a project?	2	K1

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

Q no.	Question	CO	Level
a.	Explain the concept of Earned Value (EV) and how it is calculated. How does EVA provide insight into both the cost and schedule performance of a project?	3	K2
b.	What do you mean by Software review? What are the various types of software reviews?	3	K1

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

Q no.	Question	CO	Level
a.	Explain software quality attributes.Also discuss how do they affect the overall performance and usability of a software product?	4	K2
b.	Explain SEI Capability Maturity Model in detail.	4	K2

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

Q no.	Question	CO	Level
a.	Explain risk management in software projects.Why is it important to identify and mitigate risks early in the project lifecycle?	5	K2
b.	Discuss CASE (Computer-Aided Software Engineering) tools. Also discuss how do they support various aspects of software development and project management?	5	K1