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BTECH
(SEM VII) THEORY EXAMINATION 2023-24
SOFTWARE PROJECT MANAGEMENT

TIME: 3 HRS**M.MARKS: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.**

Q no.	Question	Marks	CO
a.	Define S.M.A.R.T.	2	1
b.	What do you mean by Software project estimation?	2	1
c.	Write different approaches used in identifying activities.	2	2
d.	Define organization.	2	2
e.	Write different types of cost related to project development.	2	3
f.	Define Walkthroughs.	2	3
g.	Differentiate between verification and validation.	2	4
h.	How is change control process handled in software project.	2	4
i.	State the uses of Software project management tools.	2	5
j.	Define risk management.	2	5

SECTION B**2. Attempt any three of the following:**

a.	Discuss software project management. What is the need for SPM? Explain Structure of a Software Project Management Plan.	10	1
b.	Explain work break structure (WBS), various types of WBS and role of WBS directory.	10	2
c.	How a project can be monitored and controlled? Describe the dimensions of the project monitoring and control.	10	3
d.	Explain various types of testing strategies.	10	4
e.	Develop and discuss some of the point's specific for identifying the risks during software development. Also give some of the category of Risk that are to be identified.	10	5

SECTION C**3. Attempt any one part of the following:**

a.	Explain SPM framework and the various SPM objectives.	10	1
b.	Explain about Project plan. Also discuss types of project plans.	10	1

4. Attempt any one part of the following:

a.	Name the various project scheduling techniques. Explain any one of them in detail.	10	2
b.	Is the critical path important if only one person is working on a software project? Discuss the concept of PERT/CPM in defining an optimal schedule.	10	2

5. Attempt any one part of the following:

a.	Explain Software review and various types of software reviews in detail.	10	3
b.	Discuss Interpretation of Earned Value Indicators. Write short notes on Error Tracking, Cost Variance, and Pair programming.	10	3

6. Attempt any one part of the following:

a.	Discuss about software quality factors and attributes. How SEI CMM model is different from ISO 9000?	10	4
b.	Describe the different types, levels and strategies of testing.	10	4

7. Attempt any one part of the following:

a.	Discuss important point's specific for identifying the risk during software development. Also, give some of the category of risk that are to be identified.	10	5
b.	Explain Software Configuration Management with various configuration items and task using suitable example.	10	5