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**SHAMBHUNATH INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Subject Code: BOE068

Subject: Software Project Management

Course: B.Tech

SEMESTER: VI<sup>th</sup>

**SECOND SESSIONAL EXAMINATION, EVEN SEMESTER, (2024-2025)**  
**Branch: COMPUTER SCIENCE & ENGINEERING**

Maximum Marks-15

Time - 1 Hr.

NOTE: (Attempt All Sections)

1. Attempt ALL questions.

QN	QUESTION	Marks	CO	BL
a	Compare Function Point with Lines of Code.	1	CO2	L2
b	List out 4 different type of Agile methodologies based models.	1	CO2	L2
c	Define the term Software process and process model.	1	CO2	L1
d	What do you mean by Choice of Process models.	1	CO2	L1
e	Define term pair of programmer and TDD.	1	CO2	L2

2. Attempt Any ONE of the following.

QN	QUESTION	Marks	CO	BL
a	Briefly discuss the Dynamic Systems Development Method (DSDM).	5	CO2	L2
b	What is meant by managing an interactive process? Describe it.	5	CO2	L2

3. Attempt Any ONE of the following.

QN	QUESTION	Marks	CO	BL
a	Discuss Rapid Application Model for software development.	5	CO2	L2
b	(i) What are the different cost estimation techniques. (ii) Consider a banking application which required four modules as follows: User interface: 5400 LOC Database: 8500 LOC Server: 7300 LOC Client: 5500 LOC Find the total expenditure of company if productivity of the person is 870 LOC per month. Consider he salary of each developer is 1500 US dollar per month.	5	CO2	L3



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**THIRD SESSIONAL EXAMINATION, EVEN SEMESTER, (2024-2025)**

**Branch: COMPUTER SCIENCE & ENGINEERING**

**Time – 2 Hr.**

**Maximum Marks—45**

**NOTE: (Attempt All Sections)**

**1. Attempt any FIVE of the following.**

1. Attempt any <u>FIVE</u> of the following.		Marks	CO	BL
QN	QUESTION			
a	Explain the critical path in software project development.	2	CO3	L2
b	Discuss the activities under software configuration management.	2	CO3	L1
c	Explain the steps to handle the change control process in a software project.	2	CO3	L2
d	Briefly discuss about the need of Activity Planning.	2	CO3	L1
e	What do you mean by Sequencing and scheduling?	2	CO2	L1
f	Discuss Monte Carlo Allocation method.	2	CO2	L2

2. Attempt Any ONE of the following.

Q N	QUESTION	Marks	CO	BL
a	Illustrate Work Breakdown Structure (WBS) in context to software project and product.	5	CO3	L2
b	Design an activity network diagram by taking a suitable example using PERT Technique. Find project schedule time and Critical path.	5	CO3	L5
c	Discuss about the Forward Pass and Backward Pass techniques in Activity Planning and Risk Management.	5	CO3	L4

3. Attempt Any FIVE of the following.

Q N	QUESTION	Marks	CO	BL
a	Explain effect on Project if $CPI > 1.1$ and $SPI > 0.9$ .	2	CO4	L4
b	Discuss problems associated with concurrent Access.	2	CO4	L3
c	Explain the steps to handle the change control process in a software project.	2	CO4	L2
d	How is CPI different from SPI?	2	CO4	L3
e	What is earned value Analysis?	2	CO4	L3
f	Explain the concept of change control in software project management.	2	CO4	L2