SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA I Year II Semester Regular & Supplementary Examinations August-2023
SOFTWARE ENGINEERING

Time: 3 Hours   **Max. Marks: 60**

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	a	Define Software, Software Engineering? Discuss nature of Software.	CO1	L1	6M
	b	Explain the levels in CMMI Model.	CO1	L2	6M

OR

2	a	Explain software engineering practices and principles.	CO2	L5	6M
	b	What is Prescriptive Process Model and explain it clearly?	CO2	L1	6M

UNIT-II

3	a	What is eliciting requirements in software engineering?	CO2	L1	6M
	b	Briefly explain scenario based modeling.	CO2	L1	6M

OR

4	a	What is the procedure for SRS document process?	CO2	L1	6M
	b	List out the steps of project estimation.	CO2	L4	6M

UNIT-III

5	a	What are Design Concepts? Explain Design model.	CO3	L1	6M
	b	Define Component. Write a short note on Designing Class based components.	CO3	L1	6M

OR

6	a	Explain about component level design patterns.	CO3	L3	6M
	b	Identify the roles of Interface design and Content design.	CO3	L3	6M

UNIT-IV

7	a	What are the Test strategies for conventional software?	CO5	L1	6M
	b	How to test Mobile Applications? Discuss.	CO5	L5	6M

OR

8	a	Explain the following a) Validation Testing b) System Testing.	CO5	L2	6M
	b	Discuss about White box Testing.	CO5	L6	6M

UNIT-V

9	a	Define and explain Measurement and metrics.	CO4	L1	6M
	b	What are Product metrics? Explain them clearly.	CO4	L5	6M

OR

10	a	Explain Function Point Metrics with an example.	CO6	L1	6M
	b	Identify reengineering Activities. Explain Reverse engineering.	CO6	L3	6M

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