

ESIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

MCA I Year I Semester Regular Examinations December-2025
SOFTWARE ENGINEERING

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

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

UNIT-I

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|---|---|--|-----|----|----|
| 1 | a | Discuss advantages of incremental and evolutionary models. | CO1 | L4 | 6M |
| | b | Describe risk management in software projects. | CO1 | L2 | 6M |

OR

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|---|---|---|-----|----|----|
| 2 | a | What is configuration management and why is it important? | CO1 | L1 | 6M |
| | b | Compare iterative waterfall and spiral models with suitable examples. | CO1 | L4 | 6M |

UNIT-II

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|---|---|--|-----|----|----|
| 3 | a | Explain the purpose of a data dictionary in software requirements. | CO2 | L2 | 6M |
| | b | List and briefly discuss elicitation techniques. | CO2 | L2 | 6M |

OR

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|---|---|---|-----|----|----|
| 4 | a | Explain traceability in SRS documents. | CO2 | L2 | 6M |
| | b | State the importance of requirement validation. | CO2 | L2 | 6M |

UNIT-III

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|---|---|--|-----|----|----|
| 5 | a | Define cohesion/coupling and explain their role in design. | CO3 | L2 | 6M |
| | b | Explain structured analysis with DFD example. | CO3 | L3 | 6M |

OR

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|---|---|---|-----|----|----|
| 6 | a | What is the significance of user guidance and online help? | CO3 | L2 | 6M |
| | b | List UML diagrams used in software design with their primary purpose. | CO3 | L1 | 6M |

UNIT-IV

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|---|---|---|-----|----|----|
| 7 | a | Explain unit and system testing. | CO4 | L2 | 6M |
| | b | What are the objectives of performance testing? | CO4 | L1 | 6M |

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|---|---|---|-----|----|----|
| 8 | a | Explain integration testing methodology. | CO4 | L2 | 6M |
| | b | Write two techniques of debugging and their benefits. | CO4 | L3 | 6M |

UNIT-V

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|---|---|--|-----|----|----|
| 9 | a | What is CASE? Write its scope in software engineering. | CO5 | L1 | 6M |
| | b | Explain software maintenance process model. | CO5 | L2 | 6M |

OR

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|----|---|--|-----|----|----|
| 10 | a | What are software quality metrics? Give any three. | CO5 | L1 | 6M |
| | b | Explain basic issues in software reuse program. | CO5 | L2 | 6M |

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