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

B.Tech IV Year I Semester Regular Examinations February-2022
SOFTWARE PROCESS & PROJECT MANAGEMENT
(Computer Science & Information Technology)

Time: 3 hours

Max. Marks: 60

PART-A

(Answer all the Questions 5 x 2 = 10 Marks)

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|---|--|----|----|
| 1 | a Explain staged representations of CMMI. | L1 | 2M |
| | b Define Elaboration phase. | L2 | 2M |
| | c What are major milestones in joint management reviews? | L4 | 2M |
| | d What are core metrics in project control? | L3 | 2M |
| | e Explain project review authority (PRA). | L3 | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|-----------|---|----|-----|
| 2 | What are different process reference models? List and explain in detail. | L3 | 10M |
| OR | | | |
| 3 | a What is the importance of software maturity framework? Explain. | L2 | 5M |
| | b List and explain different principles covered by software maturity framework. | L2 | 5M |

UNIT-II

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|-----------|---|----|-----|
| 4 | Define Waterfall Model. Illustrate five necessary improvements for waterfall model. | L2 | 10M |
| OR | | | |
| 5 | a Describe software economics in detail. | L6 | 5M |
| | b What are five basic parameters of the software cost model? Discuss. | L3 | 5M |

UNIT-III

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|-----------|--|----|----|
| 6 | a What is an evolutionary work break down structure? Discuss the issues in detail. | L2 | 5M |
| | b Explain the planning guidelines of software process management. | L2 | 5M |
| OR | | | |
| 7 | a Define Periodic Status Assessment (PSA). List and clarify the objectives of PSA. | L4 | 6M |
| | b What are the seven major workflows of a process? | L4 | 4M |

UNIT-IV

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|-----------|--|----|-----|
| 8 | Explain about seven core metrics related to project control. | L4 | 10M |
| OR | | | |
| 9 | Explain Project control and Process instrumentation in detail. | L2 | 10M |

UNIT-V

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|-----------|--|----|-----|
| 10 | Illustrate the budgeted cost and expenditures regarding software project management. | L6 | 10M |
| OR | | | |
| 11 | a What are the principles of modern software management? Discuss. | L4 | 5M |
| | b Define modern transitions in detail. | L2 | 5M |

END