

Code No: 125EM**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, January/February - 2023****SOFTWARE ENGINEERING****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- | | | |
|------|---|-----|
| 1.a) | What is legacy software? | [2] |
| b) | Explain about the waterfall model. | [3] |
| c) | What is function requirement? | [2] |
| d) | Describe data models. | [3] |
| e) | What are architectural styles? | [2] |
| f) | Explain about object constraint language. | [3] |
| g) | Define integration testing. | [2] |
| h) | Explain about metrics for source code. | [3] |
| i) | What is SQA? | [2] |
| j) | Discuss about RMMM plan. | [3] |

PART – B**(50 Marks)**

- | | | |
|-----------|--|-------|
| 2. | Define process model. What are evolutionary process models? Explain in detail. | [10] |
| OR | | |
| 3.a) | What are software myths? Explain in detail. | |
| b) | Define software engineering. Explain about process patterns. | [5+5] |
| 4. | Explain in detail about requirements elicitation and analysis. | [10] |
| OR | | |
| 5.a) | What are feasibility studies? Explain. | |
| b) | Discuss in detail about structured methods. | [5+5] |
| 6.a) | Explain about task analysis and modeling. | |
| b) | Discuss about program design language. | [5+5] |
| OR | | |
| 7.a) | What is architecture? Why is architecture important? | |
| b) | Describe architectural design and interface design elements. | [5+5] |
| 8. | Explain in detail about white-box and black-box testing techniques. | [10] |
| OR | | |
| 9.a) | What is software measurement? Explain in detail. | |
| b) | Discuss about metrics for analysis model. | [5+5] |

10. Explain the following:
a) Risk identification
b) ISO 9000 quality standards.

[5+5]

OR

11. Explain the following:
a) Six Sigma quality standard
b) Software risks.

[5+5]

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