

R15

Code No: 125EM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, November/December - 2017

SOFTWARE ENGINEERING

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- | | | |
|------|--|-----|
| 1.a) | Distinguish between Software products and Software services. | [2] |
| b) | Explain Software Crisis. | [3] |
| c) | Define an Interface. | [2] |
| d) | Explain about data models. | [3] |
| e) | What are the golden rules for User Interface Design? | [2] |
| f) | Explain the Design concept coupling. | [3] |
| g) | Define Testing. | [2] |
| h) | List the metrics for Design model. | [3] |
| i) | Define Risk Refinement. | [2] |
| j) | Define Software reliability. | [3] |

PART - B

(50 Marks)

- | | | |
|-----------|--|-------|
| 2.a) | What is a Legacy Software? Explain. | |
| b) | Explain the Software Process Framework. | [5+5] |
| OR | | |
| 3.a) | Explain the various software myths. | |
| b) | Explain the working of specialized process models. | [5+5] |
| 4.a) | Explain the structure of Software Requirements document. | |
| b) | What are the feasibility studies for requirements engineering process? | [5+5] |

OR

- | | | |
|----|--------------------------------------|-------|
| 5. | Explain the following system models: | |
| a) | Object Models | |
| b) | Structured methods. | [5+5] |

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6. Explain the following five Component characteristics:

- a) Standardized
- b) Independent
- c) Composible
- d) Deployable
- e) Documented.

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[10]

OR

- 7.a) Explain the basic elements of a component model with suitable diagram.
- b) Explain the Component Based Software Engineering (CBSE).

[5+5]

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- 8.a) Explain the methods of System Testing.
- b) Explain the metrics for Analysis Model.

[5+5]

OR

- 9.a) Explain metrics for Software Quality.
- b) Describe test strategies for Conventional Software.

[5+5]

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- 10.a) Explain Software Risks.
- b) Describe the methods for Risk Identification.

[5+5]

OR

- 11.a) Explain the use of Software Reviews.
- b) Describe the methods for Risk Projection.

[5+5]

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