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R15

Code No: 125EM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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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.

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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]

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PART - B

(50 Marks)

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

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OR

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

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6. Explain the following five Component characteristics:

- a) Standardized
- b) Independent
- c) Composable
- 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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