

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]

6. Explain the following five Component characteristics:
a) Standardized
b) Independent
c) Composable
d) Deployable
e) Documented. [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]

- 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]

- 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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