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# **R15**

Max. Marks: 75

(25 Marks)

#### Code No: 125EM JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, May/June - 2019 SOFTWARE ENGINEERING (Common to CSE, IT)

### Time: 3 hours

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

#### Define software engineering. [2] 1.a) List evolutionary process models. b) [3] Differentiate between user requirement and system requirement. c) [2] List the various types of feasibility studies. d) [3] What are the goals of the design process? e) [2] Define software architecture. f) [3] What is meant by smoke testing? [2] **g**) List the metrics for source code. h) [3] Give the different categories of risks. i) [2] What is meant by software review? i) [3]

## PART - B

#### (50 Marks)

2. Discuss managers myths about software development and their effect on the practitioners performance as well as on overall outcome. [10]

OR

- 3. What is software process? What is need of software process improvement? Discuss capability maturity models. [10]
- 4. "The functional requirements specification of a system should be both complete and consistent". Substantiate this statement with relevant examples. [10]

#### OR

- 5.a) Draw a context level model for a web-based food- ordering system such as "Swiggy".
  - b) Discuss the main characteristics of data model for requirement engineering. [5+5]
- 6. How to translate the analysis model into the design model? Explain with an example scenario. [10]

#### OR

- 7.a) Explain how to map data flow into a software architecture?
  - b) Explain the design of class based components.

[5+5]

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8.a)	Discuss the process of debugging.	
b)	What is the need of beta testing?	[5+5]
OR		
9.a)	Explain the metrics for software quality.	
b)	Explain about the test strategies for connectional software.	[5+5]
10.a)	Elaborate on risk projection steps.	
b)	Provide the format of risk information sheet.	[5+5]
OR		
11.	Explain the activities of software quality assurance group to assist the software	team in
	achieving high quality.	[10]

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