Code No: 135BM **R16**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, May/June - 2019
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) Define software engineering. [2]
b) List evolutionary process models. [3]
c) Differentiate between user requirement and system requirement. [2]
d) List the various types of feasibility studies. [3]
e) What are the goals of the design process? [2]
f) Define software architecture. [3]
g) What is meant by smoke testing? [2]
h) List the metrics for source code. [3]
i) Give the different categories of risks. [2]
j) What is meant by software review? [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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