Code No: 135BM

R16

[5+5]

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) b) c) d) e) f) g) h) i)	Define software engineering. List evolutionary process models. Differentiate between user requirement and system requirement. List the various types of feasibility studies. What are the goals of the design process? Define software architecture. What is meant by smoke testing? List the metrics for source code. Give the different categories of risks. [2] 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 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
	Draw a context level model for a web-based food- ordering system such as "Swiggy". Discuss the main characteristics of data model for requirement engineering. [5+5]
	How to translate the analysis model into the design model? Explain with an example scenario. [10] OR
7 a)	OK Explain how to man data flow into a software architecture?

Explain the design of class based components.

b)

8.a) b) 9.a) b)	Discuss the process of debugging. What is the need of beta testing? OR Explain the metrics for software quality. 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]
	$\mathbf{OR}_{\mathbf{N}}$	
11.	Explain the activities of software quality assurance group to assist the software achieving high quality	team in

---00O00---