R15

Code No: 821AK

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA II Semester Examinations, December - 2019
SOFTWARE ENGINEERING

Time: 3hrs   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

5 × 5 Marks = 25

1.a)	Define software engineering. Explain the changing nature of software.	[5]
b)	Explain how process and issues involved in requirements elicitation.	[5]
c)	List out all the golden rules that are used for User Interface Design.	[5]
d)	Describe test strategies for Conventional Software.	[5]
e)	Discuss about ISO 9000 quality standards.	[5]

PART - B

5 × 10 Marks = 50

2.	Explain the incremental process model with advantages and disadvantages.	[10]
	OR	
3.	With neat diagram explain the rational unified process.	[10]
4.	Explain in detail about requirements validation and management.	[10]
	OR	
5.	Write detailed notes on context models and behavioural models.	[10]
6.a)	Illustrate how design models are bridge between system requirements and its implementation. Justify.	
b)	Discuss about architectural styles and patterns.	[5+5]
	OR	
7.	Explain about conducting component level design.	[10]
8.	Explain clearly about metrics for software quality.	[10]
	OR	
9.a)	Differentiate between Black box and White box testing.	
b)	Briefly discuss about Integration testing strategies.	[5+5]
10.a)	Differentiate between Reactive Vs Proactive risk strategies.	
b)	What is the significance of formal technical review? Explain.	[5+5]
	OR	
11.	Explain about risk projection and risk management.	[10]

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