

Www.FirstRanker.com www.FirstRanker.com JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDER

MCA II Semester Examinations, April/May - 2019

MCA II Semester Examinations, April/May - 2019 SOFTWARE ENGINEERING		
Time: 3hrs Max.Marks:75		
	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A consists of 5 Units. Answer any one full question from each unit. Each question 10 marks and may have a, b, c as sub questions.	A. Part B
PART - A		
1 a)		arks = 25
1.a)	Define and differentiate between software process, product and project. What are the characteristics of good SRS document? Discuss.	[5]
b)		[5]
c)	Describe the process of mapping dataflow into software architecture.	[5]
d)	Differentiate between verification and validation testing with examples. What is Software reliability? Explain the software reliability measures.	[5]
e)	what is Software renability? Explain the software renability measures.	[5]
PART - B		
2.	$5 \times 10 \text{ M}_{\odot}$ With neat sketches, explain the prototyping and spiral process models with \odot	
	OR	
3.a)	Describe the Capability Maturity Model Integration with neat sketch and exfunctions of each layer.	xplain the
b)	Differentiate between personal and team process models.	[5+5]
4.a) b)	What are the various methods used for determining client needs? Discuss. Distinguish between Functional and Non-Functional requirements with examples. OR	suitable [5+5]
5.a)	What is requirements validation? Discuss the issues involved in validating the software requirements.	
b)	What is purpose of Object oriented models? Illustrate them with neat sketches.	[5+5]
6.a)	What is the use of Object Constraint Language? Explain various constructs and the notations used in it.	
b)	Differentiate between coupling and cohesion with examples. OR	[5+5]
7.a)	What are the design issues to be considered in user interface design?	
b)	Explain the process of designing class based components.	[5+5]
8.a) b)	List and explain different metrics used in software design process. What is software quality? Write about the metrics used for software quality.	[5+5]
,	OR	[J+J]
9.a)	What are the metrics used for software coding and testing? Explain.	_
b)	Discuss in brief about the strategies used for testing conventional software.	[5+5]
10.a)	What is the significance of formal technical reviews? Explain.	
b)	Explain about ISO 9000 quality standards.	[5+5]
•	OR	
11.a)	What is Software Quality Assurance? Explain the activities of SQA group.	

[5+5]

b) Write the structure of RMMM Plan and explain. www.FirstRanker.com