

Code No: 812AJ

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

Time: 3 Hours Max. Marks: 60

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

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PART - A		
1.a) b) c) d) e)	Explain about software Legacy. Describe the need of software requirements document. What are the golden rules for designing user Interface? Explain about graph-based testing methods. Discuss about the RMMM plan in brief.	5 × 4 Marks = 20 [4] [4] [4] [4] [4] [4]
PART - B		
		$5 \times 8 \text{ Marks} = 40$
2.a) b)	Define a process model. Explain about Prototyping process model. What is CMMI? Explain in detail.	[4+4]
3.a)	OR Describe the changing nature of software.	
b)	What are phases of the Unified process mode? Explain briefly.	[4+4]
4.a)	How to validate requirements?	[4 : 4]
b)	Explain in brief about object models.  OR	[4+4]
5.a)	Describe functional and non-functional requirements.	
b)	What are feasibility studies? Explain in detail about requirements	s elicitation phase. [4+4]
6.a)	What is meant by pattern? Explain its role in software design.	54 43
b)	Describe refining the architecture into components.  OR	[4+4]
7.a)	Distinguish between cohesion and coupling.	
b)	Discuss about user interface design steps.	[4+4]
8.a)	Explain in detail about alpha and beta testing.	
b)	What are the metrics used for design model?	[4+4]
9.a)	OR What are debugging strategies? Explain.	
9.a) b)	Describe a framework for product metrics.	[4+4]
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10.	Explain the following:	F.4. 43
	a) Developing a risk table b) SQA  OR	[4+4]
11.	Explain the following:	
	a) Software reliability b) Risk identification	[4+4]