

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA II Semester Examinations, June/July - 2018

SOFTWARE ENGINEERING

Time: 3 Hours 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.

PART - A

- What are the various categories of software? What are the fundamental activities of a 1.a) software process? [4]
 - Compare and Contrast Functional Requirements with Non-Functional Requirements.[4] b)
 - What are the various elements of data design? c)
 - What are the reasons behind to perform white box testing? d)
 - What are the different categories of risks to be considered in "Software Development e) Process"? [4]
 - PART B
- Which of the software engineering paradigms do you think would be most effective? 2. Why? [8]
- What are the advantages of providing static and dynamic views of the software process as 3.a) in the Rational Unified Process?

OR

- List the process maturity levels in SEIs CMM. b)
- 4.a) What is requirement validation? Describe various methods of requirement validation.
- Describe the activities of Requirements Elicitation and Analysis process in brief. [4+4] b) OR
- 5. Develop an object model, including a class hierarchy diagram and an aggregation diagram showing the components in the banking system. [8]
- 6. Draw a Data-Flow Diagram to model inventory data processing involved when a customer orders items through online. [8]

OR

7. List the basic design principles of class based components and conventional components. For a case study of your choice show the architectural and component design. [8]

Code No: 812AJ

 5×8 Marks = 40

 5×4 Marks = 20

[4]

[4]





Max. Marks: 60

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[4+4]



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8.	List and explain different types of testing done during the testing phase.	[8]
	OR	
9.	Define Metric. What are the different types of metrics? Explain about quality metric	ics.[8]
10.	Explain the following: a) Reactive Vs Proactive Risk strategies. b) RMMM	[4+4]
OR		
11.	Explain the following	
	a) ISO 9000 quality standards.	
	b) Software Vs. Formal Technical reviews.	[4+4]

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