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R15 Code No: 821AK JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, August - 2017 SOFTWARE ENGINEERING Max.Marks:75

Time: 3hrs

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)	What are the generic framework activities that are present in every software	process?[5]
b)	What are the characteristics of SRS?	[5]
c)	How to assess the quality of software design?	[5]
d)	What is Cyclomatic complexity? How to compute it?	[5]
e)	Describe the difference between "known risks" and "predictable risks"?	[5]

PART - B

 5×10 Marks = 50

2.a)	Describe the life cycle of a computer-based system. Also explain the concept of Waterfa	
	model of software life cycle.	
b)	Compare between perspective and iterative process models.	[7+3]
- /	OR	[,,,,]
3.a)	Explain the levels in continuous model of CMMI.	
b)	Explain unified process? Elaborate on the unified process work products.	[5+5]
,		
4.	State and explain the requirements engineering tasks in detail.	[10]
	OR	
5.a)	Develop an object model, including a class hierarchy diagram and an aggregation diagram	
<i>e.u)</i>	showing the components in the computer based system of your choice.	on anagram
b)	Suggest how an engineer responsible for drawing up a system requirements specification	
0)		
	might keep track of the relationship between functional and non- functional req	
		[6+4]
6.a)	Explain the concept of class based modeling in detail.	
b)	What are the elements of data design?	[6+4]
	OR	
7.a)	What are the steps involved in user interface analysis?	

7.a) b) Why is "chunking" important during the component-level design review process. [5+5] FirstRanker.com

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8.a) Distinguish between verification and validation. What are the conditions exists after performing validation testing?b) What are the reasons behind to perform white box testing? [5+5]

OR

- 9. Describe the difference between process and project metrics in your own words. [10]
- 10.a) How do we review quality and how are effective reviews conducted?
 - b) Explain in detail about RMMM.

OR

11. Explain the followinga) CASE Toolsb) Change Management.

[5+5]

[5+5]

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