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Code No: 821AK

R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, August - 2017 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) 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

 $5 \times 10 \text{ Marks} = 50$

- Describe the life cycle of a computer-based system. Also explain the concept of Waterfall model of software life cycle.
 - b) Compare between perspective and iterative process models.

[7+3]

- OK
- Explain the levels in continuous model of CMMI.
 - Explain unified process? Elaborate on the unified process work products.

[5+5]

State and explain the requirements engineering tasks in detail.

[10]

- OI
- 5.a) Develop an object model, including a class hierarchy diagram and an aggregation diagram showing the components in the computer based system of your choice.
 - b) Suggest how an engineer responsible for drawing up a system requirements specification might keep track of the relationship between functional and non- functional requirements?

[6+4]

- 6.a) Explain the concept of class based modeling in detail.
 - b) What are the elements of data design?

[6+4]

- What are the steps involved in user interface analysis?
- b) Why is "chunking" important during the component-level design review process. [5+5]



7.a)



8.a)

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Distinguish between verification and validation. What are the conditions exists after

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,	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.	[5+5]
	OR	

11. Explain the following

a) CASE Tools

b) Change Management. [5+5]

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