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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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