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Code No: 812AJ

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

Max. Marks: 60 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 $5 \times 4 \text{ Marks} = 20$ Write short note on CMMI. 1.a) [4] b) Explain Behavioral models. [4] What is component level design? c) [4] d) Describe Validation testing. [4] State any three ISO 9000 quality standards. e) [4] PART - B $5 \times 8 \text{ Marks} = 40$ Compare waterfall model and Incremental process models. And also discuss for which 2. type of projects the water fall model is preferable. What are specialized process models? How are they different from the unified process?[8] 3. What is meant by Requirements elicitation? Describe how is it different from Requirements analysis. [8] OR 5. Explain the Requirement validation techniques with suitable examples. [8] Discuss the importance of software design. Explain how to asses Design qualities? 6.a) b) What are Design patterns? How they are useful in software design? [4+4] Discuss about design by top-down decomposition and design by composition. 7.a) What is meant by component based design? Discuss its advantages and its drawbacks. b) 8. Distinguish between process metrics and project metrics. Give suitable example to each of them. And explain about types of product metrics.

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with suitable examples.

assessing software quality management.

OR

Discuss about risk mitigation and monitoring and RMMM plan.

Define the Testing process. Differentiate between black box testing and white box testing

Define the term software Quality. And discuss various metrics that can be adopted for