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[5+5]

Code No: 842AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, April/May - 2019 SOFTWARE ENGINEERING

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) Define software. Explain software evolution. [5] Explain about use cases with suitable examples. [5] b) Draw and explain a class diagram for library management system. c) [5] Distinguish between black-box testing and white-box testing. d) [5] What is RMMM? Explain RMMMI plan. e) [5] PART - B $5 \times 10 \text{ Marks} = 50$ 2.a) Explain in detail about process assessment. b) What are the phases of Unified process? Explain. [5+5] 3.a) Distinguish between the incremental model and the RAD model. Explain in detail about process patterns. [5+5]b) 4.a) Who should be involved in a requirements review? Draw a process model showing how a requirements review might be organized. b) Describe the structure of a requirements document. [5+5] Develop an object model, including a class hierarchy diagram and a data flow diagram 5.a) showing the principle components of a personal computer system and its system software. b) Explain about requirements validation. [5+5] Distinguish between sequence diagram and collaboration diagram with examples. 6.a) What are interface design elements? Explain. b) [5+5] 7.a) Explain terms and concepts of component diagrams. What are architectural styles? Explain. b) [5+5] 8.a) Discuss about the art of debugging. Explain about function-based metrics. b) [5+5] OR 9.a) What is integration testing? Explain. Explain about architectural design metrics. b) [5+5]



10.a)

OR

Distinguish between LOC and FP metrics.

What are SQA activities? Explain.

Explain about software reviews.
Discuss about statistical SQA.