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13MCA33

Third Semester MCA Degree Examination, June/July 2018
Software Engineering

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Define software engineering. Elaborate upon the essential attributes of a good software. (10 Marks)
b. Illustrate as how software engineering concept is applied by involving a case study of an insulin pump control system. (10 Marks)
- 2 a. Describe in detail the waterfall model using a diagrammatic representation. (10 Marks)
b. Explain in detail the various phases that are involved in the rational unified process with a diagrammatic representation. (10 Marks)
- 3 a. Discuss in detail upon functional and non-functional requirements. (10 Marks)
b. Elaborate upon the requirements elicitation and analysis process. (10 Marks)
- 4 a. Discuss in detail about interaction models with diagrammatic representation. (10 Marks)
b. Describe about the architectural styles for C and C view. (10 Marks)
- 5 a. Discuss the basic elements of a component model with a diagrammatic representation. (10 Marks)
b. Describe the key CBSE processes in detail. (10 Marks)
- 6 a. Give a detailed note upon the various distributed system issues. (10 Marks)
b. Elaborate the various architectural patterns for distributed systems. (10 Marks)
- 7 a. Describe the two commonly used approaches for effort estimation. (10 Marks)
b. Discuss in detail about the concept of Risk management. (10 Marks)
- 8 a. Elaborate in detail upon Black-Box testing. (10 Marks)
b. Explain in detail about the testing process. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.