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13MCA33

Third Semester MCA Degree Examination, June/July 2019
Software Engineering

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain the professional responsibility of a software engineer and write any 6 ACM/IEEE code and ethics. (10 Marks)
b. Explain essential attributes of good software and general issues that affect the software. (10 Marks)
- 2 a. Discuss the general model of the design processes with a neat diagram. (08 Marks)
b. Write IEEE standard format for requirement documents. (04 Marks)
c. Explain how Ethnography is very essential in order to understand the operational processes with neat diagram. (08 Marks)
- 3 a. Explain the components of extreme programming release cycle. (10 Marks)
b. Explain the difference between waterfall model and incremental development model. (06 Marks)
c. Explain the difference between functional and non-functional requirements. (04 Marks)
- 4 a. Based on your experience with Bank ATM, draw a sequence diagram. (10 Marks)
b. Explain the non-functional system requirements for software architectural style of structure. (10 Marks)
- 5 a. Define software component. Explain five component characteristics. (06 Marks)
b. Discuss the CBSE processes with a neat diagram. (08 Marks)
c. Explain any 2 component compositions with neat diagram. (06 Marks)
- 6 a. Explain the important design uses of distributed system engineering. (06 Marks)
b. Explain the master-slave architecture by taking traffic management system as an example. (08 Marks)
c. Discuss the Layered architectural model for client-server architecture. (06 Marks)
- 7 a. Write a note on project scheduling and staffing. (06 Marks)
b. Explain in detail Risk Management concept called: i) Risk Assessment ii) Risk Control. (06 Marks)
c. Write a short note on Bottom-up estimation approach. (08 Marks)
- 8 a. Explain testing processes in detail. (10 Marks)
b. Give the description about level of testing with its hierarchy. (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.