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Third Semester MCA Degree Examination, Dec.2018/Jan.2019
Software Engineering

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Define software engineering. Explain various types of applications being developed. (08 Marks)
b. Explain ACM/IEEE code of ethics. (08 Marks)
c. What difference has the web, made to software engineering? (04 Marks)
- 2 a. Explain incremental development with neat diagram. (10 Marks)
b. What is software evolution? Explain the process of prototype development with neat diagram. (10 Marks)
- 3 a. Explain the principles of Agile method. (10 Marks)
b. Explain IEEE standard structure of a requirement document. (10 Marks)
- 4 a. What is use case modeling? Draw a use case diagram involving role of medical receptionist. (05 Marks)
b. Explain the MVC architecture. (05 Marks)
c. Briefly discuss coupling and cohesion. (10 Marks)
- 5 a. Explain important characteristics of components in CBSE. (10 Marks)
b. With neat diagram, explain CBSE process with reuse. (10 Marks)
- 6 a. What are the advantages of using distributed approach to system development? (08 Marks)
b. Explain two-tier client-server architecture and discuss two forms of it. (08 Marks)
c. What are the key elements of software as a service? (04 Marks)
- 7 a. With neat diagram, explain project scheduling. (10 Marks)
b. Explain three levels of project monitoring. (06 Marks)
c. Discuss about quality assurance and quality control. (04 Marks)
- 8 a. Illustrate the levels of testing with neat diagram. (10 Marks)
b. Write in detail about black box testing and white box testing. (10 Marks)

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