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Third Semester MCA Degree Examination, June/July 2015
Software Engineering

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. What is software? Explain the different attributes of a good software. (05 Marks)
 - b. Explain the various key challenges being faced in software engineering. (05 Marks)
 - c. What are the professional and ethical responsibilities a software engineer should have? (05 Marks)
 - d. Give a brief description of software engineering diversity. (05 Marks)
- 2
 - a. Explain with a neat diagram, the Boehm spiral model of software development process. What are merits and demerits of spiral model? (10 Marks)
 - b. What is software prototyping? What are its merits? (04 Marks)
 - c. Explain the various principles of agile methods. (06 Marks)
- 3
 - a. Explain the general structure of a software requirement document suggested by IEEE. (06 Marks)
 - b. Clearly distinguish between functional and non functional requirements. (06 Marks)
 - c. With a neat diagram, explain the different types of activities that are performed in the requirement engineering process. (08 Marks)
- 4
 - a. What is meant by system model? Explain in detail different behavioral model with examples. (10 Marks)
 - b. Explain different types of architectural styles for component and connector view. (10 Marks)
- 5
 - a. What is meant by component? Explain basic elements of component model. (10 Marks)
 - b. Explain the process of CBSE. (10 Marks)
- 6
 - a. Describe issues of distributed system. (06 Marks)
 - b. Explain client server computing. Discuss its advantages and disadvantages. (10 Marks)
 - c. What are the characteristics of software as a service? (04 Marks)
- 7
 - a. What are the factors to be considered during the process of staff selection? (08 Marks)
 - b. Explain the activities of software configuration management plan. (08 Marks)
 - c. What is project monitoring plan? (04 Marks)
- 8
 - a. What are the objectives of testing? (06 Marks)
 - b. Briefly explain the black box testing with advantages. (10 Marks)
 - c. Write a note on software testing process. (04 Marks)
