CBCS SCHEME

16/17MCA34

Third Semester MCA Degree Examination, Dec.2019/Jan.2020
Software Engineering

Time: 3 hrs.

Max. Marks: 80

Note: *Answer FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. What is Software? Explain the different attributes of good software. **(08 Marks)**
   b. With sketch, explain water fall process model. Mention the advantages and disadvantages of waterfall model. **(08 Marks)**

OR

2 a. Illustrate how spiral model is different from other process models. Explain the same with diagram. **(08 Marks)**
   b. Describe incremental model with advantages and disadvantages. **(08 Marks)**

Module-2

3 a. Explain the need for requirements elicitation and analysis. **(08 Marks)**
   b. Compare and contrast between functional and non-functional requirements. **(08 Marks)**

OR

4 a. Describe requirements engineering process briefly. **(08 Marks)**
   b. Write short notes on component based software engineering process. **(08 Marks)**

Module-3

5 a. Define system modeling. Explain each UML diagram, with a diagram used to represent the essentials of a system. **(08 Marks)**
   b. Explain briefly model driven engineering process. **(08 Marks)**

OR

6 a. Describe the role of software architecture in software developments. **(08 Marks)**
   b. Write short notes on architectural styles for component and connector view. **(08 Marks)**

Module-4

7 a. Explain briefly function oriented design in software development. **(08 Marks)**
   b. Describe the issues of distributed system. **(08 Marks)**

OR

8 a. Explain briefly client server computing. Discuss its advantages and disadvantages. **(08 Marks)**
   b. Write short notes on software as a service? **(08 Marks)**

Module-5

9 a. Explain briefly project scheduling and staffing. **(08 Marks)**
   b. Explain the activities of project monitoring plan. **(08 Marks)**

OR

10 a. Explain briefly software testing process. **(08 Marks)**
   b. Compare and contrast between black box testing and white box testing. **(08 Marks)**

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