

GBCS Scheme

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16MCA34

Third Semester MCA Degree Examination, June/July 2018

Software Engineering

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. What are the attributes of good software? Explain. (05 Marks)
- b. What is software engineering? Explain professional responsibilities of a software engineering. (06 Marks)
- c. Explain the principles of agile methods. (05 Marks)

OR

- 2 a. Explain incremental development model with its merits and demerits. (06 Marks)
- b. Explain extreme programming in detail. (10 Marks)

Module-2

- 3 a. What is requirement engineering? Explain functional and non-functional requirement. (08 Marks)
- b. Explain requirement discovery in detail. (08 Marks)

OR

- 4 a. What is CBSE? Explain the basic elements of component model. (06 Marks)
- b. What is SRS document? Explain structure of SRS document. (06 Marks)
- c. Explain requirement validation. (04 Marks)

Module-3

- 5 a. Explain interaction model in detail. (08 Marks)
- b. Explain the following:
 - i) Class diagram
 - ii) Context diagram. (08 Marks)

OR

- 6 a. Explain architectural styles of component and connectors (CC) in detail. (12 Marks)
- b. Explain architectural views. (04 Marks)

Module-4

- 7 a. Explain software as a service. (04 Marks)
- b. Explain the following:
 - i) Master and slave architecture
 - ii) Peer-to-peer architecture
 - iii) Two-tier client-server architecture (12 Marks)

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- 8 a. What is distributed system? Explain the issues of distributed systems. (08 Marks)
b. Explain about matrix in functional orientated design. (08 Marks)

Module-5

- 9 a. Explain black box testing and white box testing. (10 Marks)
b. Explain testing process. (06 Marks)

OR

- 10 a. What is quality plan? With a neat diagram, explain defect injection and removal cycle in detail. (06 Marks)
b. Explain project scheduling and staffing. (06 Marks)
c. Explain project monitoring plan. (04 Marks)

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