CBCS SCHEME

USN | | | | | | | | | | |

16/17MCA34

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

Time: 3 hrs. Max. Marks: 80

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

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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.

Module-1

1 a. Describe software engineering code of ethics and professional practices as defined by IEEE/ACM. **(08 Marks)**

b. Why software engineering is important? Explain the attributes of good software. **(08 Marks)**

OR

2 a. Explain the phases in Rational Unified Process. **(08 Marks)**

b. List and explain the Extreme Programming practices. **(08 Marks)**

Module-2

3 a. Explain the terms "user-requirements" and "system requirements". List different readers of user requirements and system requirements. **(08 Marks)**

b. With a neat diagram, explain the different types of activities that are performed in the requirement engineering process. **(08 Marks)**

OR

4 a. Explain the CBSE process with a neat diagram. **(08 Marks)**

b. With a neat diagram, explain the different types of non-functional requirements. **(08 Marks)**

Module-3

5 a. What is meant by system model? With an ATM model explain the context model. **(08 Marks)**

b. Explain the role of software architecture. **(08 Marks)**

OR

6 a. Explain Architectural styles for C and C view. **(08 Marks)**

b. Explain state machine models with an example. **(08 Marks)**

Module-4

7 a. Explain function oriented design. **(08 Marks)**

b. Write a note on cohesion and coupling. **(08 Marks)**

OR

8 a. Briefly explain the architectural patterns for distributed systems. **(08 Marks)**

b. Discuss the complexity matrix for function oriented design. **(04 Marks)**

c. Write a note on Software as Service. **(04 Marks)**

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Module-5

9 a. Explain project schedule and staffing. **(08 Marks)**

b. Explain the activities of software configuration management plan. **(08 Marks)**

OR

10 a. Describe in details the process of testing. **(08 Marks)**

b. Mention the differences between white box testing and block box testing. **(08 Marks)**

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