CBCS SCHEME

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

17CS45

Fourth Semester B.E. Degree Examination, June/July 2019
Software Engineering

Time: 3 hrs. Max. Marks: 100

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

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. Define software. Explain essential attributes of good software. **(08 Marks)**
b. Explain different types of application software's. **(06 Marks)**
c. Explain Bohem's spiral model. **(06 Marks)**

OR

2 a. Explain a general model of the design process with block diagram. **(06 Marks)**
b. Explain the structure of requirement document. **(08 Marks)**
c. Explain requirement elicitation and analysis process. **(06 Marks)**

Module-2

3 a. Explain context models with an example. **(08 Marks)**
b. Explain : i) Generalization ii) Aggregation. **(06 Marks)**
c. Draw state diagram for working of microwave oven. **(06 Marks)**

OR

4 a. Explain Rational Unified Process (RUP). **(08 Marks)**
b. Draw UML state diagram for weather station system. **(08 Marks)**
c. Discuss in short about open source licensing. **(04 Marks)**

Module-3

5 a. Define testing. Explain interface testing. **(08 Marks)**
b. Discuss TDD(Test Driven Development) **(06 Marks)**
c. Explain user testing. **(06 Marks)**

OR

6 a. Define software evolution. Explain software evolution process with block diagram. **(08 Marks)**
b. Discuss Lehman's laws of program evolution dynamics. **(06 Marks)**
c. Discuss four strategic options for legacy system management. **(06 Marks)**

Module-4

7 a. Discuss factors affecting software pricing. **(10 Marks)**
b. Explain project scheduling process. **(10 Marks)**

OR

8 a. Discuss software quality attributes. **(08 Marks)**
b. Discuss the various inspection checks in program inspection. **(06 Marks)**
c. Discuss the relationships between internal and external quality attributes. **(06 Marks)**

Module-5

9 a. Explain two ways of coping with change and changing requirements. **(10 Marks)**
b. Explain extreme programming practices. **(10 Marks)**

OR

10 a. Explain the extreme programming release cycle. **(08 Marks)**
b. Write short note on pair programming. **(06 Marks)**
c. Explain SCRUM process. **(06 Marks)**

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