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Fourth Semester B.E. Degree Examination, Dec.2018/Jan.2019
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. Explain briefly software engineering ethics. **(04 Marks)**
b. With a suitable block diagram, explain water fall model. **(06 Marks)**
c. Explain requirements engineering processes with suitable diagram. **(06 Marks)**

OR

2 a. With the help of neat diagram, explain insulin pump control system. **(04 Marks)**
b. With a neat diagram, explain Boehm's spiral model. **(08 Marks)**
c. Explain Ethnography in detail. **(04 Marks)**

Module-2

3 a. Draw a context model for Patient Management System. How the interactions are modeled? **(06 Marks)**
b. With the help of a neat state diagram, illustrate the working of a microwave oven. **(06 Marks)**
c. What is Model Driven Engineering? State the three types of abstract system models produced. **(04 Marks)**

OR

4 a. Illustrate how design models are the bridge between system requirements and the implementation of a system. Draw a sequence diagram describing data collection of weather information system. **(05 Marks)**
b. What is design pattern? Explain four elements of design pattern. **(05 Marks)**
c. Discuss the implementation issues important in software engineering. **(06 Marks)**

Module-3

5 a. Explain development testing. Explain the three levels of granularity carried out in testing. **(04 Marks)**
b. Discuss test driven development and state the benefits of test driven developments. **(04 Marks)**
c. What is user testing? Explain six stages of acceptance testing process. **(08 Marks)**

OR

6 a. List and explain the 'Lehman's Law' concern to system change. **(06 Marks)**
b. Explain software reengineering process with suitable diagram. State the activities of reengineering process. **(06 Marks)**
c. Explain the four strategic options of legacy system management. **(04 Marks)**

Module-4

7 a. List and explain the factors affecting software pricing. **(05 Marks)**
b. Explain in detail plan driven development approach to software engineering. **(05 Marks)**
c. Explain the COCOMO – II estimation model. **(06 Marks)**

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OR

8	a.	Explain different types of software standards and mention their importance.	**(05 Marks)**
	b.	Explain how reviews and inspections are used to check the quality of project delivery.	**(06 Marks)**
	c.	List and explain the key stages in software component analysis.	**(05 Marks)**

Module-5

9	a.	Explain the ways of coping with change and reduction of rework cost.	**(06 Marks)**
	b.	Explain the practices involved in the extreme programming.	**(10 Marks)**

OR

10	a.	State the principle of agile methods.	**(05 Marks)**
	b.	Explain plan drive and agile development approach for software development.	**(05 Marks)**
	c.	Write a note on pair programming.	**(06 Marks)**

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