(10 Marks)

Third Semester B.E. Degree Examination, Aug./Sept.2020 Software Engineering

Time: 3 hrs. Max. Marks: 100

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

a. Define Software Engineering. Bring out the differences between generic

- a. Define Software Engineering. Bring out the differences between generic and bespoke software. List Software Engineering attributes.

 (10 Marks)
 - Explain Incremental Development process model with a neat block diagram. List its benefits and problems.

OR

a. Illustrate Requirement Engineering process with a neat block diagram.
 b. Explain the IEEE standard requirement document with its structure.

(10 Marks)

Module-2

- 3 a. Define object orientation, list and explain the aspects of object oriented approach. (10 Marks)
 - b. List and explain the object oriented theories which supports object oriented technology.
 (10 Marks)

OR

- a. Briefly explain Links, Associations, Ordering, Bags and Sequences with an example each.
 (10 Marks)
 - b. Explain Generalization and Inheritance with an example each. (10 Marks)

Module-3

- What is system modeling? Explain the different perspective that the system model developed. (10 Marks)
 - b. Illustrate sequence diagram with an example to view patient information. (10 Marks)

OR

- 6 a. Explain Event-driven model with a state diagram of microwave oven application. (10 Marks)
 - b. Define design patterns. Briefly explain the essential elements of design patterns. (10 Marks)

Module-4

- 7 a. Discuss Test Driven Development (TDD) with its process and list its benefits. (10 Marks)
 - b. Explain software evolution process with neat block diagram.

OR

8 a. Discuss Lehuran's laws of program evolution dynamics.

b. Explain Reengineering process with a neat block diagram. (10 Marks)

Module-5

9 a. Discuss project plan. Explain the various section of project plan. (10 Marks)
b. With a neat diagram explain project scheduling process. (10 Marks)

OR

a. Discuss software quality and its attributes. Explain process based quality. (10 Marks)
b. Explain software reviews and inspections of Quality Assurance. (10 Marks)
