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Total No. of Printed Pages: [01]

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B.Sc. IT (Semester – 5th)
SOFTWARE ENGINEERING
Subject Code: BITE 1523
Paper ID: [130427]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. Difference between computer program and computer software.
- b. What are the various categories of software?
- c. What are the different SDLC models available?
- d. What are the Verification and Validation?
- e. What do you mean by Software Re-engineering?
- f. What are CASE Tools?
- g. What is debugging?
- h. What are Software Metrics?
- i. What is Data Flow Diagram?
- j. What is SRS?

Section – B

(5 marks each)

- Q2. Explain the need of software life cycle models in software engineering.
- Q3. Write a detail note on white box testing.
- Q4. Explain in detail about object-oriented software development.
- Q5. Explain effort estimation techniques with an example
- Q6. What type of reverse engineering makes the most sense for your application?

Section – C

(10 marks each)

- Q7. What is the process of software testing? Explain the different testing methods illustrating their importance.
- Q8. Explain the software requirement analysis and specification? Discuss various methods for requirement gathering.
- Q9. Explain the following software lifecycles in detail.
 - a) WaterFall Model
 - b) Evolutionary Model