Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 2

Total No. of Questions : 07

B.Sc.(IT) (2015 & Onward)   (Sem.–5)
SOFTWARE ENGINEERING
Subject Code : BSIT-503
Paper ID : [74377]

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. **Answer briefly :**

   a) What is difference between Software and Program?

   b) Write the reason for failure of Waterfall Model.

   c) What is the objective of Software planning?

   d) What is Risk Analysis?

   e) Describe role of metrics in software development.

   f) What is Code documentation?

   g) Why a low degree of coupling between modules is desirable?

   h) What do you mean by Fourth generation Techniques?

   i) Describe Object Oriented Design.

   j) Differentiate between White box and Black Box Testing.

SECTION-B

2. What are various Structured Analysis tools? Explain them with appropriate examples and pictorial representations.

3. a. What are Case tools in software development? Discuss its types.

    b. Compare and Contrast Reverse and Forward Engineering.

4. Describe Software Design in detail.

5. Explain Prototype and Spiral Software Development models with diagrammatical representations.

6. Discuss different types of Estimation techniques.

7. Why testing is important? Explain various Software Testing Strategies.