

Roll No.

Total No. of Pages : 02

Total No. of Questions : 16

B.Sc. (IT) (2015 & Onwards) (Sem.–5)

SOFTWARE ENGINEERING

Subject Code : BSIT-503

M.Code : 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

Answer briefly :

1. List the characteristics of Software.
2. Differentiate between Validation and Verification.
3. Define Data Dictionary.
4. Differentiate between Function Oriented Software Design and Object Oriented Design.
5. What is Cyclomatic Complexity?
6. Explain the concept of Software Restructuring.
7. Why a high degree of coupling between modules makes maintenance difficult?
8. What do you understand by Software Reliability?
9. Describe Unit Testing.
10. Define Fourth generation techniques.

SECTION-B

11. a. What is a DFD? Discuss various levels of DFD.
b. Explain importance of SRS Document for development of software product.
12. a. Describe Software Equation.
b. Explain COCOMO model with an example.
13. a. Discuss the various phases of Software Development Life Cycle.
b. What are Size Metrics? How is the Function Point metric advantageous over the LOC metric? Explain.
14. a. Explain various CASE standards.
b. Explain concept of Software Reengineering.
15. a. Differentiate between White Box and Black Box Testing.
b. Compare and Contrast System, Validation and Integration Testing.
16. a. Explain Prototype model.
b. Can Spiral model be called as Meta model? Justify your answer.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.