Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

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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

 1.   **Answer briefly :**

   a) Define software engineering. What is its need?

   b) What are the advantages of waterfall model?

   c) Write the significance of COCOMO model.

   d) What is the role of ER diagram in software development?

   e) Define data design.

   f) What is unit testing?

   g) What is significance of CASE tools?

   h) Write various components of software.

   i) Write the significance of software equation.

   j) What are product metrics?

SECTION-B

2. Define metrics. Explain the role of metrics and measurements in software development.

3. Define software design. What are its objectives? Discuss how architectural design is different from procedural design.

4. Differentiate the followings :

   a) Verification and Validation

   b) White box and Black box testing

5. What is software re-engineering? Explain how reverse engineering is different from forward engineering?

6. Explain prototyping model with its relative advantages and disadvantages.

7. Write notes on the following :

   a) DFD

   b) Object-oriented concepts

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.