

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

M.Sc. (Computer Science) (2016 & Onwards) (Sem.-3)

SOFTWARE ENGINEERING

Subject Code : MSC-305

M.Code : 72107

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.**
2. **SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**

SECTION-A

1. Explain all the phases of waterfall model.
2. Explain the following concepts :
 - a) Analysis Principles of Software Engineering
 - b) Evolution of Software Engineering.

SECTION-B

3. How ER diagrams are significant for Software Engineering? Explain.
4. Discuss the following in detail :
 - a) Procedural Software Design
 - b) Principles for Software design

SECTION-C

5. Describe the following by taking suitable examples:
 - a) Function Points and Lines of Codes
 - b) COCOMO-I model
6. Differentiate the following :
 - a) White Box and Black Box Testing
 - b) Verification and Validation

SECTION-D

7. What is meant by Software Quality? Explain any standards for ensuring software quality.
8. Explain the following :
 - a) Change Control
 - b) Models for Software Quality Management

SECTION-E

9. **Write briefly :**
 - a) Define Software Process.
 - b) Name any two principles of Software Engineering.
 - c) Comment on SRS document.
 - d) What is DFD?
 - e) Which phase of Software development model generates Data Dictionaries?
 - f) Discuss cost estimation briefly.
 - g) How test case differs from test suit?
 - h) Which model talks about risk assessment?
 - i) Enlist any two software quality metrics.
 - j) Differentiate re-engineering and reverse-engineering.

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.