

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc. (Computer Science) (2015 & Onwards) (Sem.-3)

SOFTWARE ENGINEERING

Subject Code : MSC-305

Paper ID : [A3172]

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.
3. Use of non-programmable scientific calculator is allowed.

SECTION-A

- Q1) Differentiate Waterfall, Spiral & Prototyping Model.
- Q2) What is the SRS Document? Explain how it is helpful in software engineering using some suitable example.

SECTION-B

- Q3) What is Requirement Analysis and specification? Explain Software Requirement Specification in detail.
- Q4) Describe Object-Oriented Software Development and give Generalized Object-Oriented Analysis & Design Process.

SECTION-C

- Q5) What is Cost Estimation? Explain Different Estimation Techniques and its Model.
- Q6) What is testing? Explain White-Box Testing.

SECTION-D

- Q7) Differentiate between Reengineering and Reverse Engineering.
- Q8) What is Software Quality Management? Explain its standards and Models.

SECTION-E

Q9) Answer briefly :

- a) Explain Acceptance Testing.
- b) Show Software Characteristics in detail.
- c) What is Entity Relationship?
- d) Explain data Dictionary.
- e) Discuss Change control process.
- f) What is object oriented design Mythologies?
- g) What is McCabe's Cyclomatic Complexity Metric of testing?
- h) Explain Black Box testing.
- i) Discuss the Significance of COCOMO Model,
- j) What is validation testing?