Roll No. Total No. of Pages: 2

Total No. of Questions: 09

MCA (Sem.-3)

SOFTWARE ENGINEERING

Subject Code: MCA-402 Paper ID: [B0114]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION 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 carrying TWENTY marks in all.
- 3. Use of non-programmable scientific calculator is allowed.

SECTION-A

- 1. What is the Role of Metrics? Explain its measurement in detail using some suitable example.
- 2. Differentiate Waterfall, Spiral & Prototyping Model.

SECTION-B

- 3. What is Requirement Analysis and Specification? Explain Software Requirement Specification in detail.
- 4. What is Cost Estimation? Explain Different Estimation Techniques and its Model

SECTION-C

give generalized

Object-Oriented Analysis & Design Process.

6. Differentiate between Procedural & Object Oriented Design.

SECTION-D

- 7. What is Testing? Explain White-Box Testing.
- 8. How Verification is different from Validation? Discuss Integration Testing.

SECTION-E

9. Write briefly:

- a) Explain the Concept of Project Management.
- b) Show Software Characteristics in detail.
- c) What is Structured Analysis?
- d) Explain Data Dictionary.
- e) Discuss the various Decomposition Techniques.
- f) What is Object Oriented Design Mythologies?
- g) What is Validation Testing?
- h) Explain Black Box Testing.
- i) Discuss the significance of COCOMO Model.
- j) What is McCabe's Cyclomatic Complexity Metric of Testing?