Total No. of Pages: 0							Roll No.
Total No. of Questions: 0							

# MCA (Sem.-3<sup>rd</sup> ) SOFTWARE ENGINEERING

Subject Code: MCA-303 Paper ID: B1159

Time: 3 Hrs. Max. Marks: 100

## **INSTRUCTIONS TO CANDIDATE:**

- 1. Attempt any One questions from Section A, B, C and D
- 2. Section E is compulsory.

#### **SECTION A**

- 1. What do you mean by Software metrics? Discuss in brief the various characteristics of ideal software metrics. (20)
- 2. Explain in detail problem analysis and requirements specification. (20)

## **SECTION B**

- 3. Compare various design methodologies used in object-oriented design. (20)
- 4. What is software design? What is its need? How design of software related to evaluation of software? Categorize software design (20)

#### **SECTION C**

- 5. What is the significance and goals of software testing? Explain various testing strategies. (20)
- 6. Write short notes on the following: (20)
  - a. Verification and validation
  - b. Integration and System Testing

## **SECTION D**

- 7. What do you mean by structured analysis? Explain in detail the tools used for analysis of any Software system. (20)
- 8. Explain in detail the various cost estimation models used in Software Engineering. (20)

# **SECTION E**

- 9. Answer Briefly: (20)
  - a. What is testing?
  - b. What is meant by fault and failure?
  - c. Define risk.
  - d. What is operational feasibility?
  - e. What is white box testing?
  - f. List and explain what various cost estimation techniques are?
  - g. What is a prototype?
  - h. Explain waterfall model?
  - i. Compare and contrast software quality assurance and software testing.
  - j. What is the purpose of design documentation?