

Roll No.....

Total No. of Printed Pages: [01]

Total No. of Questions: [09]

**BCA-MCA Dual Degree (Semester – 3rd)**

**SOFTWARE ENGINEERING**

**Subject Code: BCMC313**

**Paper ID: 18340111**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1. Attempt the following:

- a) What are basic software components?
- b) What are software metrics?
- c) What are Gant charts? What is their importance?
- d) Differentiate between inspection and review?
- e) Explain the functional testing.
- f) Differentiate between while box and black box testing.
- g) Explain software quality metrics.
- h) Explain software design methodologies in detail.
- i) Explain the term abstraction.
- j) Explain internal documentation.

**Section – B**

**(5 marks each)**

Q2. Explain the waterfall models stepwise with proper diagram.

Q3. Explain the top down and bottom up approaches for system design.

Q4. What is SRS(Software Requirement Specification ) document? What is its importance?

Q5. Explain software design metrics in detail.

Q6. Explain Data Flow Diagram with example.

**Section – C**

**(10 marks each)**

Q7. Explain the COCOMO model in detail.

Q8. Explain all types of testing in detail.

Q9. Explain the programming style in detail.