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.