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Total No. of Printed Pages: [01]

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BCA-MCA Dual Degree (Semester – 3rd)

SOFTWARE ENGINEERING

Subject Code: BMCAS1301

Paper ID: 19340111

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.