	Roll No.													Total No. of Pages: 0	2
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Total No. of Questions: 07

## BCA (2011 & Onward) (Sem. – 4) SOFTWARE ENGINEERING

M Code: 10066 Subject Code: BSBC-401 Paper ID: [B0240]

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTIONS TO CANDIDATES:**

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

## **SECTION A**

- 1. Briefly answer the following:
  - a) What are the characteristics of Software?
  - b) What are software components?
  - c) What is the need for software project planning?
  - d) Briefly discuss the software equation.
  - e) What are the characteristics of Software Requirement Specification?
  - f) Define the term Modularization.
  - g) What is data hiding?
  - h) Why software testing is important?
  - i) Define software verification.
  - i) What are test cases?

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## **SECTION B**

- 2. Discuss the Waterfall model of software development in detail. What are the problems associated with the Waterfall model?
- 3. What is the importance of metrics and measurements in software engineering? Discuss the various types of software metrics.
- 4. What do you mean by software cost estimation? Why Software cost estimations are not so correct? Discuss the COCOMO model for cost estimation in detail.
- 5. What do you mean by Data Flow Diagram (DFD)? Discuss various symbols required to draw a DFD. Explain with suitable example.
- 6. What are the levels of testing? Discuss different types of testing with suitable examples.
- 7. Elaborate in detail the taxonomy of CASE tools.

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