

Roll No.					Total No. of Pages :	02

Total No. of Questions: 07

BCA (2013 & Onward) (Sem.-4) SOFTWARE ENGINEERING

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

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

1. **Answer briefly:**

- a) Write any two characteristics of Software.
- b) Define the term Metric. Write any two examples
- c) How is size of a computer program measured?
- d) Identify the entities in a computer game for modelling the game of cricket.
- e) What is a test oracle?
- f) What is a data dictionary?
- g) What is the purpose of software testing?
- h) Create two test cases to test a program that finds calculates multiplication of two given matrices.
- i) What is a legacy system?
- j) Write any two challenges of software reengineering.

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SECTION-B

- 2. What is a software process? How is it different from a software product? Discuss any two software process models. (2,2,6)
- 3. What is the role of metrics and measurements in software development? Give examples of at least 3 metrics and the purpose they serve. (4,6)
- 4. Differentiate between:
 - a) Structured Analysis and Object Oriented Analysis
 - b) Verification and Validation
 - c) DFD and ER Diagram
 - d) Waterfall and Spiral model (10)
- 5. Discuss the taxonomy of CASE tools. (10)
- 6. How is testing integrated with the life cycle of a software product? Is it sufficient to test a software product only at the end of its life cycle? (8,2)
- 7. How is cost of a software product estimated? Are these estimates always correct? If not, why? (8,2)

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