

Roll No.

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Total No. of Pages : 02

Total No. of Questions :07

BCA (Sem.-4th)

SOFTWARE ENGINEERING

Subject Code :BSBC-401 (2011 Batch)

Paper ID : [B0240]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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 has to attempt any FOUR questions.

SECTION - A

- a) State various components of Software.
- b) Explain the role of Metrics in Software Engineering.
- c) Explain the meaning of prototyping.
- d) List various objectives of Software Project Planning.
- e) Differentiate between Verification and Validation.
- f) List some advantages of Waterfall Model.
- g) Differentiate between Unit testing and System testing.
- h) Differentiate between reverse engineering and restructuring.
- i) What is testability?
- j) Define the term software reliability.

SECTION - B

- 2) Define Software and Software Engineering term. What are the various characteristics of software? Explain Fourth Generation Techniques in detail.
- 3) What are various Decomposition Techniques? Explain COCOMO model with example.
- 4) Explain Procedural Design with its characteristics. How is it different from Object-Oriented Design?
- 5) Why is software testing required? Differentiate between White Box Testing and Black Box Testing.
- 6) Explain various testing strategies in detail with the help of an example.
- 7) Write notes on following :
 - a) Restructuring