

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (2013 & Onwards) (Sem.-4)

**SOFTWARE ENGINEERING**

Subject Code : BSBC-401

M.Code : 10066

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 has to attempt any FOUR questions.

**SECTION-A**

**1. Answer briefly :**

- a) Write the drawbacks of waterfall model.
- b) What are fourth generation techniques?
- c) Write a short note on DFD.
- d) Discuss the concept of object oriented design.
- e) What is the role of data dictionary?
- f) Explain white box testing.
- g) Define Verification & Validation.
- h) What is restructuring in Software Engineering?
- i) Discuss forward engineering.
- j) Write the roles of System Analyst.

## SECTION-B

- Q2. Explain spiral model for software life cycle and write its various activities in each phase.
- Q3. Describe the need of cost estimation of project? Discuss any model used for cost estimation.
- Q4. Explain the design principles. What is the importance of Architecture design?
- Q5. Give the importance of test case design. Discuss Unit Testing.
- Q6. What is Software reengineering? How it is used in software development?
- Q7. What is meant by CASE tool? How CASE is used to design and implement software applications?

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