

Roll No.

Examination May-2014

Total No. of Questions: 07]

BCA (Sem. – 3rd)

Total No. of Pages: 01]

Software Engineering

SUBJECT CODE: BC – 303

Time: 03 Hours

Maximum Marks: 60

Instruction to Candidates:

- 1) Section – A is **Compulsory**.
- 2) Attempt any **Four** questions from Section – B.

Section – A

Q 1)

(10 x 2 = 20)

- a) List various Software Process Models.
- b) What is the Role of metrics?
- c) What are the Principles of Structured Analysis?
- d) Describe Data Dictionary.
- e) What are Objectives of Software Project Planning?
- f) What are Characteristics of data design?
- g) What is Problem Based estimation?
- h) What do you mean by White-Box testing?
- i) What is Software Equation?
- j) List various Testing Principles.

Section – B

(4 x 10 = 40)

Q 2) What do you mean by Prototyping? Discuss advantages of Prototype models over Waterfall models.

Q 3) What are various Estimation techniques? Explain COCOMO Model in detail.

Q 4) Write note on the following:

- a) DFD
- b) Entity Relationship Diagram

Q 5) What are Software Design Methodologies? Explain Architectural design with example.

Q 6) Write note on the following:

- a) Verification and Validation
- b) Fourth Generation Techniques

Q 7) What is testing? Explain various testing strategies.