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Total No. of Pages : 02

Total No. of Questions : 07

BCA (2011 & Onward) (Sem.-4)

SOFTWARE ENGINEERING

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

Q1. Write briefly :

- a) Define Characteristics of Software Engineering.
- b) Explain the role of CPM in Project Planning.
- c) What is data dictionary?
- d) What is difference between coupling and cohesion?
- e) What do you mean by decomposition techniques?
- f) What is the difference between Verification and Validation?
- g) Difference between alpha and beta testing.
- h) What do you mean by Reverse Engineering?
- i) What do you mean by CASE tools?
- j) List significance of Metrics in Software.

SECTION-B

- Q2. What are the Software Process Models? Explain Spiral model in detail.
- Q3. What is Software Design? Explain objectives and principles of software design.
- Q4. What do you mean by Structured Analysis? Explain various tools in detail.
- Q5. Difference between the following :
- a) White box and Black Box Testing
 - b) Procedural and Architectural Design
- Q6. Discuss Principles of Testing. What are various types of testing techniques?
- Q7. Explain the role of CASE tools in Software Reengineering in detail.