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Total No. of Pages : 2

Total No. of Questions : 07

BCA (Sem.-3) (2007 to 2010 Batch)

SOFTWARE ENGINEERING

Subject Code : BC-303

Paper ID : [B0211]

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

1. Write briefly :

- (a) What are various advantages and disadvantages of Fourth Generation Techniques?
- (b) What is metric? Explain the difference between size oriented and functional metrics.
- (c) What is software equation? What is its need?
- (d) Explain the difference between unit and system testing.
- (e) What is requirement analysis? Explain.
- (f) Explain how problem based estimation is different from process based estimation?
- (g) What are characteristics of architecture design?
- (h) What is testability?
- (i) Explain how verification is different from validation.
- (j) List various objective of software design.

SECTION-B

2. What is spiral model? What are its characteristics? Discuss various advantages and disadvantages of spiral model over waterfall model.
3. Write notes on the following :
 - (a) Characteristics of Software
 - (b) Project Management
4. What is testing? How it is different from debugging? Explain various principles of software testing.
5. What is procedure design? What are its characteristics? Explain how procedural design is different from object oriented design.
6. What is ER Diagram? Draw and explain the ER diagram of University Examination System.
7. Explain the following :
 - (a) DFD
 - (b) Cost Estimation Model