Roll No. Total No. of Pages: 02

Total No. of Questions: 07

B.Sc.(CS) (2013 & Onwards) (Sem.-5) SOFTWARE ENGINEERING

Subject Code : BCS-506 Paper ID : [72579]

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTIONS TO CANDIDATES:**

- 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. Answer briefly:

- a) Define Software Engineering.
- b) What are the applications of software engineering?
- c) Differentiate between size-oriented and process-oriented metrics.
- d) What is software equation?
- e) What are the objectives of requirement analysis?
- f) What is an ER diagram?
- g) How test cases are designed?
- h) Can software be tested completely? Justify your answer.
- i) What is the difference between verification and validation?
- i) What is the difference between re-engineering and restructuring?

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## **SECTION-B**

- 2. What are software process models? Elaborate the Waterfall model in detail.
- 3. What are the steps in planning a software project? What are the difficulties of estimating project costs? Discuss any one method of cost estimation in detail.
- 4. Discuss in detail the software design methodologies.
- 5. What are the objectives of software testing? Discuss the various testing strategies with examples.
- 6. What is software re-engineering? Differentiate between reverse engineering and forward engineering.
- 7. Define CASE. What are the various categories of CASE tools?

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