

Paper ID & Roll No. to be filled in your Answer Book

Roll No.

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**BCA (Fourth Semester)**  
**Even Semester Examination, 2015**  
**SOFTWARE ENGINEERING**

*Time: 3.00 Hours]*

*[Max. Marks: 70*

**Note:** Attempt any Two of the following:

*(2×5=10)*

1. (a) List the features of a good SRS.
- (b) What is a software process? Explain the use of spiral model in developing new software.
- (c) What do you mean by feasibility study? Explain its importance.

**Note:** Attempt any Four of the following:

*(4×5=20)*

2. (a) Describe the phases of software development life cycle.
- (b) Explain the method of cost estimation of COCOMO.
- (c) Differentiate between software verification and validation.
- (d) What is software piracy? List the role of software legacy in software engineering.
- (e) Explain prototype model and write down its advantages and disadvantages.

(1) (180)

BCA-403 / 380 / 2

**Note:** Attempt any Two of the following:

(2×10=20)

3. (a) Highlight the activity of software testing and describe the following:
- (i) Beta testing
  - (ii) Test cases
  - (iii) Debugging
- (b) What are the software metrics? Describe the following:
- (i) Reliability
  - (ii) Fault tolerance
- (c) Explain Water fall Model and discuss briefly all its phases with diagram.

**Note:** Attempt any four of the following:

(4×5=20)

4. (a) Explain computer aided software engineering.
- (b) Describe the designing tools of the software engineering.
- (c) What are CMM levels of software development processes.
- (d) Differentiate between coupling and cohesion.
- (e) Explain at least four requirement elicitation techniques.

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(2)

BCA-403 / 380 / 2