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(Printed Pages 3)

Roll No. _____

SFS-4710

B.C.A. (Semester-IV) Examination, May 2015

(New Syllabus)

Software Engineering

Paper-III

(BCA-S-208)

Time Allowed : Three Hours] [Maximum Marks : 100

Note : Answer five questions in all. Question No. 1 is compulsory. Attempt one question from each Unit.

1. (a) What is difference between Program and Software? 4 × 10 = 40
- (b) Explain system software?
- (c) Explain application software.
- (d) What is software process?
- (e) Define the goal of unit testing.
- (f) Explain portability characteristics of software.

P.T.O.

(2)

- (g) Explain software components.
- (h) How do you estimate software cost?
- (i) Explain the importance of first phase of SDLC.
- (j) Software does not "Wear out".

Unit-I

- 2. Explain following software characteristics: 15
 - (i) Functionality
 - (ii) System reliability
 - (iii) Usability
 - (iv) Efficiency
 - (v) Availability
- 3. Explain the importance of software engineering for software developer. Give generic view of software engineering. 15

Unit-II

- 4. Explain the importance of SRS. How to create software specification document? 15
- 5. Write short notes on: 15
 - (i) Correctness

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- (ii) Consistency
- (iii) Completeness

Unit-III

- 6. Discuss designing software solutions. How do we assess the quality of a software design? 15
- 7. Explain various steps for software implementation. Discuss relationship between design and implementation. 15

Unit-IV

- 8. What is software maintenance? Give various reasons for maintenance. 15
- 9. (a) What is difference between predictive maintenance and preventive maintenance. 7½
- (b) Explain the importance of configuration management. 7½

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