

- (b) What do you mean by software configuration management? Also discuss in brief the various software configuration management activities. [8]

----- X -----

Question Paper Code : 6493

B.C.A. (Semester-IV) Examination, 2018

(New Syllabus)

SOFTWARE ENGINEERING

[Third Paper]

(BCA-S-208)

Time : Three Hours]

[Maximum Marks : 100

Note : Answer five questions in all. Question No.1 is compulsory. Besides this, one question is to be attempted from each Unit.

1. Write short answer of the following : [4x10=40]
- (a) What is software engineering ?
 - (b) What characteristics of software make it different from other engineering products ?
 - (c) What is bathtub curve ?
 - (d) Distinguish between a program and a software product.
 - (e) What is SRS document ?

6493/800

(4)

6493/800

(1)

[P.T.O.]

- (f) Explain the terms correctness, consistency and completeness ?
- (g) Define software design.
- (h) What is software implementation ?
- (i) Explain the term readability.
- (j) What do you understand by version and releases ?

UNIT-I

2. (a) What are the symptoms of the software crisis ? What factors have contributed in the making of the software crisis ? What are possible solutions to the software crisis ? [8]

- (b) What is software process ? Also discuss the process activities which are common to all software processes. [7]

3. (a) Explain the characteristics of software. [7]
- (b) Discuss the classification of software. [8]

UNIT-II

4. (a) What are the different components of software requirement specification ? [8]

6493/800

(2)

- (b) Explain the importance of requirements. How many types of requirements are possible and why ? [7]

5. (a) Write the major uses of SRS documents. [8]

- (b) Write the Benefits of SRS. [7]

UNIT-III

6. (a) What are the objectives of architectural design ? [8]

- (b) Give any two important differences between the function-oriented and object-oriented design approach. [7]

7. (a) Discuss the Design principles. [8]

- (b) Discuss the design objectives/properties. [7]

UNIT-IV

8. What is software maintenance ? Describe various categories of maintenance. Which categories consumers maximum effort and why ? [15]

9. (a) What is the need of 'Maintenance' of a software ? [7]

6493/800

(3)

[P.T.O.]