U-2411

B. C. A. (Third Year) Examination, 2021

BCA 301 : Software Engineering

Time allowed : **Three Hours**

Maximum Marks : **75**

Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

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UNIT - I

1 (a) Explain the concept of software engineering. What are the good principles of good software engineering. **8**

(b) What is project planning in software engineering and why it is needed ? **7**

2 (a) Explain the software development life cycle. **8**

(b) How to plan an Organization Structure. **7**

UNIT - II

3 (a) What is software cost estimation ? Explain various software cost factors. **7**

(b) How is software maintenance cost calculated ? Explain. **8**

4 (a) Define SRS. Explain various components of SRS.

8

(b) Explain formal specification techniques.

7

UNIT - III

5 What are the design principles of a good software design ? Explain.

15

6 (a) Explain about object-oriented analysis and design principles.

8

(b) What are Real Time and distributed system design principles ? Explain.

7

UNIT - IV

7 (a) What is coding style in software engineering ? Explain the good coding guidelines.

8

(b) What is the purpose of type checking ? Explain.

7

8 (a) What is Concurrency Mechanism ? Explain.

8

(b) Explain documentation guidelines.

7

UNIT - V

9 (a) Explain Quality Assurance.

8

(b) Differentiate between Black Box and white box testing.

7

10 Explain various aspects of software maintenance.

15

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