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B.C.A. (Part-III) Examination, 2022

COMPUTER SCIENCE

(Software Engineering)

Time Allowed : Three Hours

Maximum Marks : 100

Minimum Passing Marks : 33

Note: Attempt **any five** questions. **One** question from each unit is **compulsory**. All questions carry **equal** marks.

Unit-I

1. Explain the following: [20]

   (a) Waterfall Model

   (b) Life cycle of Software

OR

What is Software Engineering? Explain Phase Development Process of S/W Engineering.

Unit-II

2. What is the use of Metrics? Explain various types of Metrics with suitable example. [20]

OR

Explain the following:

(a) Function Oriented Metrics

(b) Phase Management Process

Unit-III

3. What is Structured Analysis? Describe in detail its various tools. [20]

OR

Explain the following:

(a) Data Dictionary

(b) Decision Tables

Unit-IV

4. What is the use of Software Design? Explain its designing levels and module concept. [20]

OR

Explain the following:

(a) Structured Chart

(b) Rules of Good Programming Style

Unit-V

5. What do you meant by Software Testing? Explain different types of Software Testing. [20]

OR

Explain the following:

(a) Software Maintenance

(b) Testing Fundamentals

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