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BACHELOR OF COMPUTER APPLICATION

BCA (Third Year) Examination, 2020

SOFTWARE ENGINEERING

Paper I (BCA-301)

Time Allowed : Three Hours

Maximum Marks : 75

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

UNIT-I

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

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

2. (*a*) What is SDLC ? Explain the seven phases of SDLC. 8

(*b*) What are the several steps of planning the software ? 7

UNIT-II

3. (*a*) How are the case tools classified ? Explain about cost estimation. 8

(*b*) How is software maintenance cost calculated ? Explain. 7

4. (*a*) Define SRS. What are the several components of SRS ? 8

(*b*) What is the difference between a requirement and a specification ? 7

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UNIT-III

5. Explain in detail the design concepts. List the principles of a software design. 15

6. (*a*) Explain the following : 8

   (1) Milestones

   (2) Walkthroughs

   (3) Inspections

   (4) Review.

   (*b*) Define module. Explain modularization criteria. 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 documentation ? Describe its needs and types. 8

   (*b*) Explain concurrency mechanism in detail. 7

UNIT-V

9. (*a*) What are the various types of system testing ? Explain the types of software testing. 8

   (*b*) Differentiate between Black box and White box testing. 7

10. (*a*) What are the managerial aspects of software maintenance ? 7.5

    (*b*) Discuss software maintenance tools and techniques. 7.5

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