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Bachelor of Computer Application

BCA (III Year) Examination, 2019

SOFTWARE ENGINEERING

Paper I : (BCA-301)

Time Allowed : Three Hours

Max. Marks : 75

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

*प्रत्येक इकाई में से **एक** प्रश्न का चयन करते हुये, कुल **पाँच** प्रश्नों के उत्तर दीजिए। **सभी** प्रश्नों के अंक समान हैं।*

UNIT-I

1. (*a*) Requirements analysis is unquestionably the most communication intensive step in the software engineering process. Why does the communication path frequently break down ? 8

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(*b*) Define the Software Engineering and challenges of Software Engineering. 7

2. (*a*) Explain the planning and development process in detail. 8

(*b*) Discuss the managerial issues of Software Engineering. 7

UNIT-II

3. (*a*) What is cost estimation in software ? What types of cost estimation model are available in Software Engineering ? 8

(*b*) What do you mean by the cost estimation techniques ? Explain. 7

4. (*a*) What do you understand by Formal Specification Techniques ? 8

(*b*) Explain the Staffing level Estimation in Software Engineering. 7

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UNIT-III

5. What are the design principles of a good software design ? Explain. 15

6. (a) Explain about object-oriented analysis and design principle. 8

(b) What are Real Time and Distributed system design principles ? Explain. 7

UNIT-IV

7. (a) Explain Structured coding techniques in detail. 8

(b) Discuss the standard guidelines for Coding style. 7

8. (a) What is Concurrency Mechanism ? Explain. 8

(b) What do you understand by Scoping Rules ? Explain. 7

UNIT-V

9. (a) What is testing ? Explain the different levels of testing. 8

(b) Explain Unit Testing process and debugging with an example. 7

10. Explain the following :

(a) Enhancing Maintainability during development. 7½

(b) Aspects of Software maintenance. 7½

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