

<b>E-0343</b>
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<b>Sub. Code</b>
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<b>1BCA6C3</b>
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**B.C.A. DEGREE EXAMINATION, APRIL 2019**

**Sixth Semester**

**SOFTWARE ENGINEERING**

**(CBCS – 2011 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Write the differences between real time software and business software.
2. Write the differences between system engineering and software engineering.
3. What are the major factors that influence the software cost?
4. What is meant by product complexity?
5. Define a “software module”.
6. What is meant by mile stone?
7. What is meant by validation testing?
8. What is meant by configuration management?
9. Define quality and quality control of a software product.
10. What are the formal approaches to SQA?

**Part B**

(5 × 5 = 25)

Answer **all** questions, choose either (a) or (b).

11. (a) Explain about the managerial issues of software engineering.

Or

- (b) Explain the issue of planning on organizational structure.

12. (a) Describe about algorithmic cost model.

Or

- (b) Describe about Delphi cost estimation.

13. (a) Explain about distributed system design.

Or

- (b) Explain about the design guidelines in detail.

14. (a) How will you enhance the maintenance during development?

Or

- (b) Describe about source code metrics.

15. (a) Explain about the software reliability.

Or

- (b) Explain about the software safety.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Describe about the productivity factors in detail.  
17. Describe about the staffing level estimation.

18. Describe the fundamental software design concepts.
  19. Describe about the mistake-proofing for software.
  20. Explain about white-box testing and basis path testing in detail.
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