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# FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, NOVEMBER 2022 B.C.A.

#### BCA/BCS 5B 10—PRINCIPLES OF SOFTWARE ENGINEERING

(2019 Admission onwards)

Time: Two Hours

Maximum: 60 Marks

#### **Section A (Short Answer Type Questions)**

Answer all questions.

Each question carries 2 marks.

Ceiling 20 marks.

- 1. What is SDLC?
- 2. What do you mean by Agile software development?
- 3. What are the advantages of requirement validation?
- 4. What is CSPEC in flow-oriented requirement modeling?
- 5. How component diagram is different from other UML diagrams?
- 6. Point out the steps should be considered while designing software.
- 7. What are the problems of concurrency mechanism in software engineering?
- 8. What are the challenges faced during the process of debugging?
- 9. What are the objectives of re-engineering?
- 10. Which are the specific elements of the Requirement Model?
- 11. List out the features of modern programming languages.
- 12. Explain data abstraction in modern programming language.

## **Section B (Short Essay Type Questions)**

Answer all questions.

Each question carries 5 marks.

Ceiling 30 marks.

- 13. Compare waterfall model with Spiral model.
- 14. Explain requirement modeling and its strategies.

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- 15. Write a note on requirement validation and its different checks.
- 16. With the help of an example, explain activity diagram.
- 17. Explain the various design concepts.
- 18. How package diagram differs from component diagram.
- 19. Describe conventional software testing in detail.

### **Section C (Essay Type Questions)**

Answer any **one** question. Each question carries 10 marks.

- 20. What do you mean by software supportability? Explain.
- 21. With the help of an example, explain Software Re-engineering.