## FIFTH SEMESTER U.G. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS—UG)

B.C.A.

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

(2019 Admissions)

Time: Two Hours

Maximum: 60 Marks

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

Answer at least **eight** questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

- 1. Define Software Engineering.
- 2. What do you mean by Formal methods model?
- 3. What is an agile process?
- 4. What is business process?
- 5. Explain the term Reverse Engineering.
- 6. Explain the function of code restructuring.
- 7. What do you mean by Requirements Elicitation?
- 8. What are Use case diagrams?
- 9. Explain the term modularity.
- 10. What do you mean by Exception handling?
- 11. What is Validation testing?
- 12. Explain Data abstraction.

 $(8 \times 3 = 24 \text{ marks})$ 

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

Answer at least **five** questions. Each question carries 5 marks. All questions can be attended. Overall Ceiling 25.

- 13. Explain the software engineering process framework.
- 14. Explain the incremental Process model.

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- 15. Explain software design concepts.
- 16. Compare Scrum and DSDM.
- 17. Explain Business Process Reengineering
- 18. Explain QFD.
- 19. Explain the strategic approach to software testing.

 $(5 \times 5 = 25 \text{ marks})$ 

# Section C (Essay Type Questions)

Answer any **one** question. The question carries 11 marks.

- 20. Explain Software Development Life Cycle. Discuss the Waterfall model.
- 21. Explain the different types of System tests.

 $(1 \times 11 = 11 \text{ marks})$