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Reg. No....................................

FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION NOVEMBER 2025

Computer Science

BCS 5B 10—PRINCIPLES OF SOFTWARE ENGINEERING

(2019 Syllabus)

Time : Two Hours　　　　　　　　　　　　　　　　　Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer **all** *questions.*
Each correct answer carries a maximum of 2 *marks.*
Ceiling 20 *marks.*

1. What is software engineering ?

2. What is validating in requirements model ?

3. Difference between validation and verification.

4. List any *four* supporting documents.

5. What is a class diagram ?

6. Which are the evolutionary process models ?

7. What is a state diagram ?

8. What are software myths ?

9. What is a program unit notebook ?

10. What is automated debugging ?

11. What does a process pattern describes ?

12. Which are the different types of restructuring ?

Turn over

Section B (Short Essay Type Questions)

Answer **all** *questions.*
Each correct answer carries a maximum of 5 *marks.*
Ceiling 30 *marks.*

13. Explain about Waterfall model and Incremental process model.

14. What is requirements engineering ? Which are the different tasks in it ?

15. Discuss about documentation guidelines.

16. How to achieve Software quality ?

17. Explain about framework activities of software engineering

18. Describe briefly about Extreme Programming.

19. Explain about modern Programming language features.

Section C (Essay Type Questions)

Answer any **one** *question, correct answer carries* 10 *marks.*

20. Explain in detail about various agile process models.

21. What is Software testing ? Explain about different types of system testing.

(1 × 10 = 10 marks)