D 30471 (Pages : 2) Name...

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

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.

Turn over

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.