



QP CODE: 21102790

Reg No

Name

## BCA DEGREE (CBCS) EXAMINATIONS, OCTOBER 2021

### **Fourth Semester**

**Bachelor of Computer Applications** 

# Core Course - CA4CRT03 - SYSTEM ANALYSIS AND SOFTWARE ENGINEERING

2019 Admission only

FF51AA2C

Time: 3 Hours

Max. Marks: 80

#### Part A

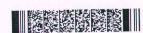
Answer any ten questions. Each question carries 2 marks.

- What are the purpose of Organization Chart? 1.
- Write any two characteristics of Computer Information System. 2.
- Explain the term reusability of components in a software. 3.
- Distinguish between generic and customized products. 4.
- Explain SDD. 5.
- How do we cancel a project with least work? 6.
- What is data dictionary? 7.
- What is Hardaware interface? 8.
- What do you mean by Pseudocode? 9.
- 10. Define reliability.
- 11. What is software testing?
- 12. What is unit testing?

 $(10 \times 2 = 20)$ 

#### Part B

Answer any six questions. Each question carries 5 marks.





- 13. distinguish between feedback and control. How do they relate to the concept of exception reporting?
- 14. Explain life-cycle activities.
- 15. Compare Water fall model and proto typng models.
- 16. What is Facilitated Application Specification Techniques?
- 17. What is Function count?
- 18. Explain the objectives of modular softwre design .What are effects of module cuopling and cohesion?
- 19. What documents should be produced on completion of the design phase?
- 20. Explain flow graph with an example.
- 21. Explain path testing.

 $(6 \times 5 = 30)$ 

#### Part C

Answer any **two** questions.

Each question carries **15** marks.

- 22. With a neat diagram explain the spiral model?
- 23. Explain the various models in COCOMO.
- 24. Explain the two part design process with diagram.
- 25. Discuss in detail about any three techniques to design test cases.

 $(2 \times 15 = 30)$ 

