

QP CODE: 24027836



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, OCTOBER 2024**

Third Semester

B.Sc Computer Applications Model III Triple Main

Core Course - CT3CRT02 - SYSTEM ANALYSIS AND SOFTWARE ENGINEERING

2017 Admission Onwards

9707418D

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define BIS.
2. Define organization chart.
3. Define Baseline specifications.
4. Define software engineering.
5. Define Software Prototyping.
6. Define Software requirement engineering
7. Define software requirement characteristics.
8. What are the elements of design model ?
9. Define Data object.
10. Define UML diagram.
11. Define Testing.
12. Define Boundary Value Analysis.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Explain information system levels with neat diagram.
14. List the task regions in the Spiral model.
15. What are the benefits of prototyping ?
16. Different types of software requirements.
17. Explain COCOMO model.
18. Compare coupling and cohesion.
19. Explain Capability Maturity Model.
20. Explain Verification and validation.
21. Define the meaning of quality assurance. Explain the role of testing in quality assurance.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain SDLC Models with a neat diagram.
23. Explain a) Waterfall Model.
b) Spiral Model.
c) Prototype Model.
24. What is CMM and McCall software quality model?
25. Give a brief introduction about debugging and Testing tools.

(2×15=30)

