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TB243584W

Reg. No :.....

Name :.....

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2023 ADMISSIONS REGULAR

B.VOC S.W.D SEMESTER III - SKILL

CA3C07B23 - System Analysis and Software Engineering

Time : 3 Hours **Maximum Marks : 80**

Part A

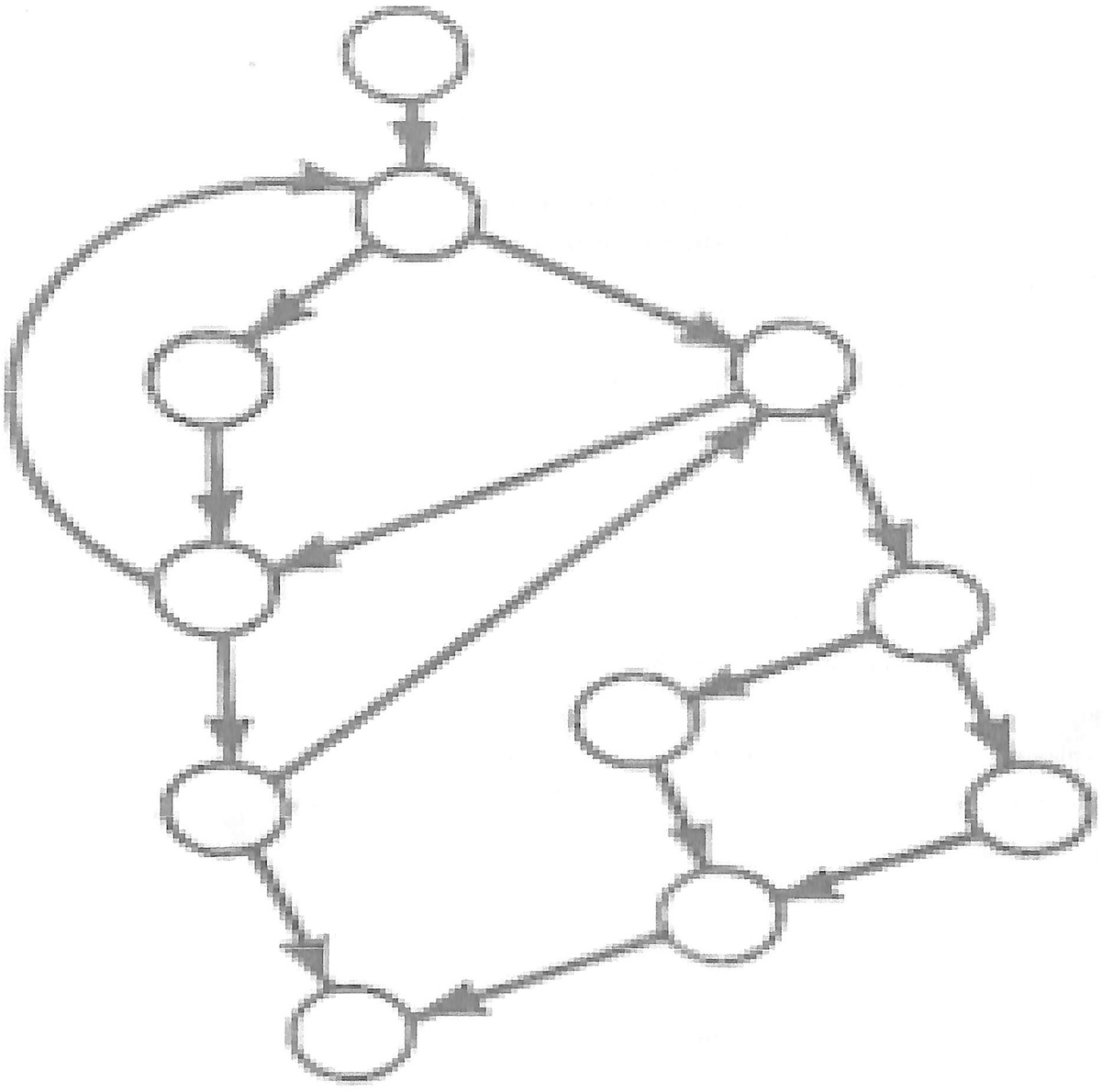
I. Answer any Ten questions. Each question carries 2 marks **(10x2=20)**

1. What is the significance of Feedback in a system?
2. Explain Business Information Systems
3. Define System Analysis
4. If user participation is available, which Software life cycle model is to be chosen?Why?
5. Differentiate between product and process
6. List out the most important feature of Spiral Model
7. Define LOC
8. Give the project size of embedded mode of Basic COCOMO
9. Name three software product aspects addressed by McCall's software quality factors
10. Define pseudocode
11. Define Software Testing
12. Define Scrum

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

13. Explain the essential skills required for a system analyst
14. Define feasibility study. What are the different types of Feasibility studies?
15. Explain four phases of RAD model
16. What do you mean by SRS?
17. Consider a project with the following functional units : No of user inputs = 20 No of user outputs = 30 No of user enquiries = 35 No of user files = 05 No of external interfaces = 03 Assume all complexity adjustment factors and weighting factors are average. Compute the function points for the project. [Weighting Factors for EI - 4, EO – 5, EQ – 4, ILF – 10, EIF – 7, Fi = 3]
18. State the importance of McCall Quality model.
19. What is design? Describe the difference between conceptual design and technical design.
20. What do you mean by cyclomatic complexity? Illustrate any method for finding cyclomatic complexity
21. **Find the Cyclomatic Complexity of the given Flow Graph using Graph Matrix method.**



Part C

III. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

22. Explain in detail categories of Information.
23. Explain RAD and Prototype model in software engineering.
24. Explain SRS? List out the advantages of SRS
25. Explain in detail McCall Software Quality Model with a neat diagram