

**BACHELOR OF COMPUTER
APPLICATION II YEAR
EXAMINATION, 2010**

Paper — BCAD-303

SYSTEM ANALYSIS and DESIGN

Time : 2½ Hours

Maximum Marks : 70

*(Write your Roll No. at the top immediately
on receipt of this question paper.)*

*Answer ALL questions of Section A, any SIX questions
of Section B and any THREE questions of Section C.*

SECTION - A (1 × 10 = 10)

Fill in the blanks:

1. A computer can also be treated as a _____.
2. SDLC stands for _____.
3. A _____ is an element of a system that performs the actual transformation of input into output.
4. ERD stands for _____.
5. _____ is the first phase of system development.

P.T.O.

6. _____ Feasibility is a determination of whether a proposed project can be implemented fully within a stipulated time frame.
7. The process followed in the determination of, whether or not a project is worth doing is called _____ study.
8. In structured design a program is segmented in to small, independent _____.
9. _____ Coupling is preferred.
10. _____ Cohesion is preferred.

SECTION - B (6 × 5 = 30)

Answer any SIX questions.

11. What are the necessary qualifications of a system analyst and why?
12. Describe the various elements of system with example.
13. Write short notes on the following :
 - a) Data Flow Diagram
 - b) Data Dictionary
14. What is the purpose of preliminary investigation in system development ?
15. What is a decision tree ? How does it differ from decision table ?

16. With the help of a diagram explain the Prototyping model of system development.
17. What is ER diagram and discuss the types of relationships that exist between entity sets ?
18. What is modularization ? Why modularization is preferred ? Justify your answer.

SECTION - C (3 × 10 = 30)
Answer any THREE questions.

19. Differentiate between the following terms:
 - a) Physical and Abstract system
 - b) Open and Closed system
 - c) Deterministic and Probabilistic system
20. What is Feasibility Analysis ? Explain the different types of feasibilities in detail.
21. What is Coupling and Cohesion ? Also explain the different types of coupling and cohesion.
22. Discuss the System Development Life Cycle in detail.
23. Describe the various types of fact-finding techniques with examples.