

2019

BCA

2nd Semester Examination  
System Analysis and Design

Paper – 1205

Full Marks – 70

Time : 3 Hours

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Question No. 1 and any four from the rest.*

1. Answer any **five** questions : 2×5
- (a) What is structure analysis ?
  - (b) Define system and its various components.
  - (c) What do you mean by open system & closed system ?
  - (d) What is user friendly interface ?
  - (e) What do you mean by pseudo code ?

(f) Differentiate between permanent & temporary system.

(g) Define validation and verification.

(h) What is Debugging ?

2. Describe different phase of SDLC. What is process modelling ? Differentiate between decision table and decision tree. Write a short note on project planning ? 7+2+3+3

3. Describe different information used in a system. What are the attributes of a System Analyst ? What is JAD ? Write a short note on Economic Feasibility. What is Architectural Design ? 4+4+2+3+2

4. (a) Write the objectives of database design. 3  
(b) Who is DBA ? Write the roles of DBA. 2+3  
(c) Discuss the different method of file organization. 7

5. (a) Write the difference between logical design and physical design. 3  
(b) Explain different class of maintenance. 3

- (c) What do you mean by functional decomposition ? 3
- (d) Write short note on Quality Assurance. 6
6. (a) What is System testing ? Define the terms Test Strategy, Test plan & Test cases. 1+2+2+2
- (b) Briefly explain the different types of system testing. 8
7. Write short notes on : (Any **three**) 5×3
- (a) Feasibility Study
- (b) DSS
- (c) Structure Analysis & Design
- (d) Expert System
- (e) System Analyst

[Internal Assessment – 30]

---