

BCA 2nd Semester Exam., 2023

SYSTEM ANALYSIS AND DESIGN

Time : 3 hours

Full Marks : 60

Instructions :

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **SEVEN** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question Nos. 1 and 2 are compulsory.

1. Answer any six of the following :  $2 \times 6 = 12$

- (a) What is the need of system analyst?
- (b) What is the purpose of real-time system?
- (c) Define distributed system.
- (d) What is the use of project identification?
- (e) What is the basic purpose of physical design?
- (f) What is the difference between management skills and interpersonal skills?

- (g) What is the meaning of 'quality of software'?
- (h) What is the basic idea of modularity?
- (i) What is the basic purpose of ER diagram?
- (j) What is the criterion of report design?

2. Answer any three of the following :  $4 \times 3 = 12$

- (a) How to define forms and what is the importance of forms?
- (b) How is agile approach different from SDLC?
- (c) Explain the difference between logical design and physical design.
- (d) How do coupling and cohesion improve modular and structured designs?
- (e) Explain the role and duties of system analyst.

3. Discuss prototyping and participatory design. 12

4. Describe the difference between system requirement specification and system design specification. 12

5. With respect to modular and structured designs, describe the difference between top-down design and bottom-up design approaches. 12
6. With respect to process of system planning, discuss the issues involved in feasibility study, technical feasibility and operational feasibility. 12
7. Discuss decision tree and decision tables with example. 12

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