

S.No. : 172

BCA 4203

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 41105

Roll
No.

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B. C. A. Examination 2021-22

(Even Semester)

BASICS OF SYSTEM ANALYSIS AND DESIGN

Time : Three Hours]

[Maximum Marks : 60

Note :- Attempt all questions.

SECTION-A

1. Attempt all parts of the following : $8 \times 1 = 8$
- (a) Discuss the primary characteristics of open system.
 - (b) What is system? What are its elements?
 - (c) Illustrate difference between interaction and independence.

[P. T. O.]

- (d) Differentiate between formal and informal system.
- (e) What do you mean by open and closed system?
- (f) Differentiate between physical and abstract system model.
- (g) Distinguish between physical and abstract system.
- (h) Why is database important in MIS?

SECTION – B

2. Attempt any two parts of the following : $6 \times 2 = 12$
- (a) Discuss top-down approach to system planning.
 - (b) What are data flow diagram? How is it different from structured chart?
 - (c) Discuss the procedure for constructing a questionnaire.
 - (d) Elaborate the steps taken in system testing that leads to user's acceptance.

SECTION – C

Note:- Attempt any two parts of the following. Each part carry equal marks. $8 \times 5 = 40$

3. (a) What types fo test data are used in system testing.
- (b) Define the term quality assurance. Discuss its importance.
- (c) Discuss between system maintance and enhancement.
4. (a) Explain the difference between logical and physical design.
- (b) List and illustrate the primary uses and elements of decision table.
- (c) Describe data analysis method. How it differs from decision analysis?
5. (a) Information available from internal and external source. How to rely weights on these?
- (b) Explain post-implementation review can one perform maintenance without it:

[P. T. O.]

- (c) Describe the concept and procedure used in constructing DFDs. Use an example of library management system to describe and draw DFD.
6. (a) Explain the concept of strategic MIS planing using SAD enviroment.
- (b) Explain vaious stages of system development life cycle.
- (c) Explain the concept of entity relationship diagram with suitable example.
