

S.No. : 156

BCA 2203

No. of Printed Pages : 04

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

PAPER ID : 21108

Roll
No.

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BCA. Examination 2018-2019

(Even Semester)

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) What do you mean by information system?
- (b) Write down various elements of a system.
- (c) Differentiate between data and Information.
- (d) What are the different tools used in Analysis?
- (e) What do you understand by Initial Investigation?
- (f) What is audit trail?
- (g) How many levels in Quality Assurance in software development?

[P. T. O.]

(h) Difference between verification and validation.

SECTION – B

2. Attempt any two parts of the following : $2 \times 6 = 12$

- (a) What do you mean by system? Explain the different types of system?
- (b) List all the phases of system development life cycle and explain them in detail.
- (c) Explain the following :
 - (i) Physical and Abstract System
 - (ii) Formal and informal system
- (d) What are the different levels of Quality Assurance?

SECTION – C

Note :- Attempt all questions from this section.

3. Attempt any two parts from the following : $5 \times 2 = 10$

- (a) 'Feasibility study is the deciding step of SDLC. Give reasons in support your answer. Also discuss the various types of feasibility studies .
- (b) Write short note on :
 - (i) Data Dictionary

(ii) Decision Table

- (c) What are the various requirement of form design?
4. Attempt any two parts from the following : $5 \times 2 = 10$
- (a) Write down the various categories of cost/benefit analysis.
 - (b) Draw context analysis diagram and level one DFD for on line shopping.
 - (c) Who is system Analyst? What are the different roles performed by System Analyst in system development.
5. Attempt any two parts from the following : $5 \times 2 = 10$
- (a) Explain the logical and physical design.
 - (b) Summarize the advantages and limitation of interviews and questionnaires.
 - (c) Write short note on :
 - (i) MIS and DSS
 - (ii) Unit Testing and user acceptance testing.

6. Attempt any two parts from the following : $5 \times 2 = 10$
- (a) What do you mean by hardware and software selection? Discuss major phases in Hardware section.
 - (b) Differentiate between maintenance and enhancement. Explain which one to use in which case during system design and development.
 - (c) What do you mean by conversion? Discuss different types of conversion.
