B. C. A. Examination 2021-22

(Even Semester)

SYSTEM ANALYSIS & 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)   Write down the various components of system.

   (b)   What do you mean by fesibility study?

   (c)   What is data dictionary?

   (d)   What do you mean by information system?

   (e)   What is audit trail?

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(f) Define the system development life cycle.

(g) Enlist the five basic parts of a form.

(h) Enlist the levels of software quality assurance.

SECTION – B

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

(a) What is system? Write down the different characterstics of a system.

(b) Explain the various steps of SDLC in details.

(c) Write the difference between :

  (i) Open and closed system

  (ii) Physical and asbract system

(d) Which design methodologies are used in system design? Discuss in details.

SECTION – C

Note:- Attempt all questions. Attempt any two parts from each questions. $5 \times 8 = 40$

3. (a) Discuss the concept of MIS and DSS.

(b) What is an interview? Explain different types of interview techniques used for information gathering.

(c) What is data flow diagram? Explain with the help of example.

4. (a) Elabortate on technical and interpersonal skill required of system analyst.

(b) What do you mean by initial investigation? Why it is important in system analysis and design.

(c) Write short notes on the following:

    (i) Decision table

    (ii) Decision tree

5. (a) Write down the various types of feasibility study in details.

(b) What is file-organization? What method does the designer consider in file-organization?

(c)   What is system testing? What are the different types of system testing?

6. (a)   What is software maintenance? What are the different types of software maintenance?

(b)   Explain the criteria used for selection of the hardware.

(c)   What are the different quality factor specification used in quality assurance?

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