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BCA–12

BCA IVth Semester
Examination Dec., 2023

SYSTEM ANALYSIS AND DESIGN

Time : 2 Hours]   [**Max. Marks :** 70

Note **:–** This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given there in. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.***

Section–A

(Long Answer Type Questions)   2×19=38

Note **:–** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Define System and list its various characteristics. Explain in detail about the various types of system.

2. What is Information System ? Explain in detail about the role and need of system analyst.

3. Explain the different phases of Software development life cycle.

4. What is DFD ? Explain in detail about the logical and physical DFDs.

5. Define System testing. Explain in detail about the different types of system testing.

Section–B

(Short Answer Type Questions) 4×8=32

Note :– Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Describe the primary characteristics of open and closed systems.

2. Explain the concepts of MIS & DSS. How are they related ?

3. Distinguish between initial investigation & feasibility study.

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4. Discuss the procedure for constructing a questionnaire.

5. Explain Structured English and its advantages.

6. Explain how data flow diagrams are different from structure charts ?

7. Define the term Quality Assurance. Discuss its importance in system design.

8. Write short notes on the following :

   (a) System documentation

   (b) Cost benefit analysis

   (c) Coupling and Cohesion

   (d) System Audit

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