

Roll No.

BCA–12

System Analysis and Design

Bachelor of Computer Applications (BCA–11/16)

Fourth Semester, Examination, 2017

Time : 3 Hours

Max. Marks : 60

Note : This paper is of **sixty (60)** marks containing **three (03)** sections A, B and C. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section ‘A’ contains four (04) long answer type questions of fifteen (15) marks each. Learners are required to answer *two* (02) questions only.

1. What is information system analysis and design ? Explain the stages of SDLC.
2. Explain the process of system implementation and maintenance.
3. Who is system analyst ? List and explain the skills of system analyst.
4. Define Decision Support System (DSS). What are its characteristics ? Also list and explain various components of DSS.

Section-B**(Short Answer Type Questions)**

Note : Section 'B' contains eight (08) short answer type questions of five (5) marks each. Learners are required to answer *four* (04) questions only.

1. Explain the difference between a physical and logical Data Flow Diagram (DFD).
2. Discuss the design methodologies used in system design.
3. Differentiate between testing and debugging.
4. Give any *two* differences between DFD and Flowchart.
5. What is Structured English, Decision Tree and Decision Table ?
6. Differentiate between Physical and Abstract System.
7. Distinguish between technical, operational and economical feasibility with suitable examples.
8. What is cost benefit analysis ? Explain.

Section-C**(Objective Type Questions)**

Note : Section 'C' contains ten (10) objective type questions of one (1) mark each. All the questions of this section are compulsory.

1. includes review of the existing procedures and information flow.
 - (a) Feasibility Study
 - (b) Feasibility Report
 - (c) System Design
 - (d) None of the above

2. The most important attribute of a system analyst is :
 - (a) Excellent programming skills
 - (b) Very good hardware designing skills
 - (c) Very good technical management skills
 - (d) None of the above
3. The primary objective of system design is to :
 - (a) Design the programs, databases and test plan
 - (b) Design only user interfaces
 - (c) Implement the system
 - (d) None of the above
4. Debugging is :
 - (a) Creating program code
 - (b) Finding and correcting errors in the program code
 - (c) Creating the algorithm
 - (d) None of the above
5. The first phase in the SDLC is system :
 - (a) Identification
 - (b) Analysis
 - (c) Design
 - (d) None of the above
6. Data modeling is associated with which SDLC phase ?
 - (a) Analysis
 - (b) Design
 - (c) Maintenance
 - (d) None of the above

7. Form and report layout is performed as part of which SDLC phase ?
 - (a) Analysis
 - (b) Design
 - (c) Maintenance
 - (d) None of the above
8. Risk analysis of a project is done in :
 - (a) System analysis phase
 - (b) Feasibility study
 - (c) Implementation phase
 - (d) None of the above
9. Which of the following is not a named phase in the system development life cycle ?
 - (a) Assessment
 - (b) Maintenance
 - (c) Development
 - (d) Testing
10. Which step of SDLC performs cost/benefit analysis ?
 - (a) Analysis
 - (b) Feasibility study
 - (c) Design
 - (d) None of the above