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RollNO. _____

BCA-12

System analysis and design

Bachelor of computer Application

Diploma in Information Technology (DIT-17)

Fourth Semester Examination 2019

Time : 3 Hours

Maximum Mark : 80

Note: This paper is of eighty (80) 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 question)

Note : Section 'A' contains four (04) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

1. Why do we need for an information system? Justify your answer with at least two types of information system. Explain the problems faced without using information system.
2. Define a system. Explains the elements and characteristics of a system. Also explain the types of sytem?
3. Explain the various phases of system development life cycle with the help of diagrams. Also explain the deliverables of each phase.

4. Why do we need to analysis the requirements of a system before developing the system? How we do the structured analysis of a system. Explain the various diagrammatic representation used in system analysis.

Section – B

(Short-Answer-Type Question)

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. (4x4=16)

1. List and describe four reasons why information systems are important for business today.
2. Explain the role and need of system analysis in context of system analysis design.
3. What is the role of feasibility study SDLC? Explain feasibility study in details.
4. List down all elicitation technique i.e. requirement gathering tools with brief explanation.
5. Differentiate between Top-down and Bottom-up approach in designing a system.
6. Explain maintenance activities with its types in details.
7. What is the importance of design concepts? Explain all design concepts in brief.
8. Explain the different types of cohesion that a module might exhibit.

Section –C

(Objective Answer Type Question)

Note : Section 'C' contains (10) objective-type questions of non (01) mark each. All the questions of this sections are compulsory.

1. A weakness in a computer-based that may be exploited to cause loss or harm is known as?
 - (a) Vulnerability
 - (b) Attack
 - (c) Threat
 - (d) Exposure
2. The deliverable of requirement gathering and requirement analysis is:
 - (a) Use case
 - (b) SRS
 - (c) Use case and SRS
 - (d) None
3. Which of the following Is not desired characteristics of a software:
 - (a) Concise
 - (b) Ambiguous
 - (c) Traceable
 - (d) Verifiable
4. Software project manager is responsible for:
 - (a) Project planning
 - (b) Monitoring the progress
 - (c) Communication among stakeholders
 - (d) All of above
 - (e) None of the above

5. Function oriented design is comprised of many smaller sub functions:
 - (a) Yes
 - (b) No

6. Which depicts the flow of control in program modules?
 - (a) DFD
 - (b) Flowchart
 - (c) Both a and b
 - (d) None

7. The back bone of any organization is:
 - (a) Information
 - (b) Employee
 - (c) Management
 - (d) capital

8. The basis component of DSS are:
 - (a) Database
 - (b) Model base
 - (c) DSS software
 - (d) All of the above

9. Prototyping is used in clearing the requirements.
 - (a) True
 - (b) False

10. Which of the following are related to quality certifications?
 - (a) CMMI
 - (b) ISO 9000
 - (c) All of the above
 - (d) None
