

# Nagarjuna College of Information Technology

Shankhamul -09, Lalitpur

## Pre-Board Examination 2079

Bachelor in Computer Applications

Course Title: System Analysis and Design

Code No: CACS 203

Semester: III

Full Marks: 60

Pass Marks: 30

Time: 3 hours

Name:

Roll No:

*Candidates are required to answer the questions in their own words as far as possible.*

### Group A

Attempt All the questions

10×1=10

1. Circle (O) the best answer
  - i). Which is the most important feature of spiral model?
    - a) Quality Management
    - b) Efficiency Management
    - c) Risk Management
    - d) Performance Management
  - ii). A rectangle in a DFD represents
    - a) a process
    - b) a data store
    - c) an external entity
    - d) an input unit
  - iii). Documentation is prepared
    - a) at every stage
    - b) at system design
    - c) at system analysis
    - d) at system development
  - iv). Top-down programming is
    - a) a group of related fields
    - b) a map of the programmer's view of the data
    - c) an approach in which the top module is first tested then program modules are added from the highest level to the lowest level
    - d) a series or group of components that perform one or more operations of a more complex system
  - v). Back-up procedure helps in
    - a) restoring the operation whenever there is a disk failure
    - b) Restoring both application and system software whenever there is disk corruption.
    - c) restoring the data files whenever there is a system crash
    - d) All of the above
  - vi). A benefit derived from the creation of an information system that can be measured in dollars and with certainty.
    - a) Tangible Benefits
    - b) Intangible Benefits
    - c) Feasibility Benefits
    - d) Economic Benefits
  - vii). Before developing a logical DFD it is a good idea to
    - a) develop a physical DFD
    - b) develop a system flow chart
    - c) determine the contents of all data stores.
    - d) find out user's preferences
  - viii). Some of the tools which are available with the system analysis are .....
    - a) Interviews
    - b) Questionnaires
    - c) Observations
    - d) All of the above
  - ix). Which of the following is/are major step/s of system design?
    - a) Specification of system output
    - b) Development of system flowchart
    - c) Development of program specifications
    - d) All A, B, C
  - x). The main ingredient of the report documenting the ..... is the cost-benefit analysis.
    - a) System Analysis
    - b) System Design
    - c) Feasibility Study
    - d) System Analyst

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### Group B

Attempt any SIX questions:

6×5=30

2. Why is normalization required? Explain Third normal form with a proper example.
3. Describe the project identification and selection process.
4. Construct an E-R Diagram for football club that has a name and a ground and is made up for players. A player can play for only one club and a manager identified by his name manage a club. A footballer has a registration number, name and age. A club manager also buys players. Each club plays against other clubs in the league and matches have a date, venue and score.
5. What is CASE tools and what are its components?
6. Maintenance is an on-going process. Do you agree? Explain the process of maintaining information systems.
7. Describe the activities performed by a project manager during project initiation.
8. Why it is important to design forms and reports and what are its process?

### Group C

Attempt any TWO questions:

2×10=20

9. What are different phases of Software Development Life Cycle? Explain each of them in details.
10. How can you transform ER Diagram into relation? Explain with your own suitable example.
11. What are the process of initiating and planning the system development projects?

**Best of Luck**