## March - April 2022

## Post Graduate Diploma in Computer Applications (PGDCA) Examination

## I Semester SYSTEM ANALYSIS AND DESIGN

Time 3 Hours] [Max. Marks 100

## Note: Attempt any two parts of each question. All questions carry equal marks.

- 1. (a) What do you understand by System Analysis and Design? Explain the steps an analyst should follow to design an Information System.
  - (b) What is Feasibility Study? Explain about Technical Operational and Economic Feasibility Study.
  - (c) Explain main characteristic of System. Differentiate between Physical and Abstract System.
- 2. (a) Discuss Program Flowchart and System Flowchart. Also write its characteristic and differentiate it.
  - (b) Explain Gantt Charts and Data Dictionary with suitable example.
  - (c) How Decision Tree and Decision Table is useful in analysing system? Explain with example.
- 3. (a) What is System Testing? What type of testing are required to assure system quality? Explain.
  - (b) Explain elements of Software Quality Assurance and its techniques.
  - (c) Write short note on the following:
    - (i) Black Box Testing.
    - (ii) Integration Testing.
    - (iii) Methodologies in Input and Output Form Design.
- 4. (a) Write the various importance of Software Implementation and Maintenance.
  - (b) What is System Conversion? Explain conversion plan, methods, advantages and disadvantages. https://www.davvonline.com
  - (c) Explain, why Project Planning is important in Software Engineering?
- 5. (a) What is UML? Explain UML Concept and UML Symbol.
  - (b) Differentiate between Structured UML Diagram and Behaviour Diagram.
  - (c) Write short notes on the following:
    - (i) Package.
    - (ii) State Chart.
    - (iii) Sequence Diagram.