

S. S. Jain Subodh P. G. College, Jaipur (Autonomous)

Assignment- October 2026

Programme- PGDCA I Semester

Paper Code- PDCA-101: Computer Fundamentals & Office Tool

Note: Attempt any four questions selecting at least one question from each unit.

UNIT – I

- 1). Explain the different generations of computers
- 2). Explain the basic structure of a computer system with the help of its main components.

UNIT- II

- 3). Explain how to insert tables, pictures, objects, files, and WordArt into a Word document.
- 4). What is Mail Merge? Explain its steps. Also write short notes on Macros and Track Changes.

UNIT- III

- 5). What is Conditional Formatting? Explain how to apply conditional formatting to worksheet data.
- 6). Explain how to enter, edit, move, copy, insert, and delete data, rows, and columns in an Excel worksheet.

UNIT- IV

- 7). What is a Database Management System (DBMS)? Explain the basic features of MS Access
- 8). What is MS PowerPoint? Explain the anatomy of a PowerPoint presentation and the steps for creating a presentation.

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Paper Code- PDCA-102: Programming Fundamentals through C

Note: Attempt any four questions selecting at least one question from each unit.

UNIT - I

1. Write short notes on
 - i. Data Types
 - ii. C Tokens
 - iii. Basic Structure of a C Program
2. Explain all the Operators available in C programming language with a suitable example.

UNIT – II

3. Explain the various control loops available in C Programming language with the help of examples.
4. What is an array? Write a program to find the maximum of an array of n elements.

UNIT - III

5. What is a function? What are the different categories of a function? Explain all of them with the help of a suitable example.
6. What is pointer? Write a 'C' Program to swap two numbers using pointers.

UNIT - IV

7. What is a structure? Write a 'C' Program to read and display data of n students using array of structures.
8. What is a File? Write a C program to input data into a file from keyboard and then display the contents of the file on the display screen.

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Paper Code- PDCA-103: Web Development Tools

Note: Attempt any four questions selecting at least one question from each unit.

Unit I

1. Write Short notes on-
 - a. Domain Name and Registration
 - b. Video Conferencing and E-mail
 - c. Internet Server Identities
2. Explain how to create HTML tables, forms, hyperlinks, and images. Write suitable HTML examples for each.

Unit II

1. What is CSS? Explain CSS syntax and the three methods of applying CSS: inline, internal, and external style sheets.
2. Write Short notes on-
 - a. XML
 - b. SGML
 - c. Difference between DHTML and HTML

Unit III

1. A. Explain JavaScript with advantages.
B. Data Types in JavaScript.
2. What do you understand by JavaScript String? Explain any 5 functions of String.

Unit IV

1. Explain Data Validation in JavaScript with an example.
2. Explain any 3 objects of DOM, with an example.

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Paper Code- PDCA-104: Networking Technologies

Note: Attempt any four questions selecting at least one question from each unit.

UNIT-I

1. What is Computer Network? Explain LAN, MAN and WAN with their advantages and disadvantages.
2. What is Network Security? Explain different types of Viruses and Worms.

Unit-II

3. What is OSI Model? Explain the various Layers of OSI Model.
4. What is Transmission Media? Explain different types of Wired and Wireless media in detail.

Unit- III

5. Write short notes on:
 - (i) Data Link Protocols
 - (ii) Channel Allocation Problem
 - (iii) IP Addressing
6. Write short notes on:
 - (i) Functionality of Bridge
 - (ii) Routers
 - (iii) Gateways

Unit –IV

7. Explain the functions of each layer of TCP/IP Protocol Suite.
8. Write short notes on:
 - (i) File Transfer Protocol
 - (ii) Domain Name System

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Paper Code- PDCA-105: Operating System

Note: Attempt any four questions selecting at least one question from each unit.

Unit-I

1. Define an Operating System and explain its major characteristics and functions.
2. Explain Process Control Block (PCB) and Process States in detail.

Unit-II

3. Explain in detail about various page replacement algorithms in memory management.
4. Explain Internal and External Fragmentation with example.

Unit-III

5. What is a deadlock? Explain the different methods of handling deadlocks.
6. What are semaphores? Explain their types and operations in detail.

Unit-IV

7. What is disk scheduling? Explain its need and objectives. Discuss FCFS, SSTF, SCAN, C-SCAN, LOOK, and C-LOOK disk scheduling algorithms with suitable examples.
8. Explain the Access Matrix model of protection in detail.