

प्रदेश लोक सेवा आयोग  
प्रदेश नं. १, विराटनगर  
स्थानीय सरकारी सेवा अन्तर्गत प्राविधिक तर्फ विविध सेवा, पाँचौ तहको (कम्प्युटर अपरेटर) पदको  
खुला प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

**विषय :- सेवा सम्बन्धी**

**1. Computer Fundamentals**

- 1.1. Computer: - Definition, History, Generation, Characteristics, Types & Applications.
- 1.2. Overview of a computer system:-
  - 1.2.1. Data and data processing
  - 1.2.2. Hardware
    - 1.2.2.1. Definition of Hardware
    - 1.2.2.2. Input Unit: - Keyboard, Mouse, Scanner, etc
    - 1.2.2.3. CPU:- Arithmetic Logic Unit (ALU), Control Unit (CU), Memory Unit (MU)
    - 1.2.2.4. Output Unit:- Monitor, Printer, etc
    - 1.2.2.5. Storage devices:- Primary & Auxiliary Memory (Floppy Disk, Hard Disk, Compact Disk, DVD, Flash disk etc.)
    - 1.2.2.6. Others:- Network card, Modem, Sound card, etc.
  - 1.2.3. Software
    - 1.2.3.1. Definition & Types of Software
    - 1.2.3.2. Programming Language
  - 1.2.4. Liveware
  - 1.2.5. Firmware and Cache Memory
- 1.3. Setting & protection of Computer Room and Computer
- 1.4. Concept of Computer related threats (virus, worms, Trojan, phishing etc) remedies and protection
- 1.5. Concept of Multimedia
- 1.6. File Management basic:
  - 1.6.1. Physical Structure of the disk
  - 1.6.2. Concept of File and folder
  - 1.6.3. Wildcards and Pathname
  - 1.6.4. Type of files and file extensions
- 1.7. Computer Networking / Network Security
  - 1.7.1. Introduction to Networking
  - 1.7.2. Types of Network (LAN, MAN, WAN etc)
  - 1.7.3. Network Topology
  - 1.7.4. Concept of E-mail / Internet / Extranet / Intranet, World Wide Web (WWW)
  - 1.7.5. Familiarity with internet browsers (e.g Internet explorer, Firefox, Opera, Safari, Google Chrome etc)
  - 1.7.6. Introduction to IP address, subnet mask and default gateway
  - 1.7.7. Introduction to Network Media, Topology and Protocol
  - 1.7.8. Setting Up Microsoft Network
  - 1.7.9. Dial-Up Networking
  - 1.7.10. Firewall and Computer Security
  - 1.7.11. IEEE Standard
- 1.8. Number Systems
  - 1.8.1. Introduction to binary, octal, decimal and hexadecimal number systems
- 1.9. Introduction to ASCII and Unicode standards

## **2. Operating System**

- 2.1. Introduction to Operating System
- 2.2. Types of Operating System
- 2.3. Functions of Operating Systems
- 2.4. Command line operation (e.g. copy command, move command, command to view and set different file attributes etc)
- 2.5. Windows
  - 2.5.1. Introduction to GUI
  - 2.5.2. Introduction of Windows Operating System
    - 2.5.2.1. Basic Windows Elements - Desktop, Taskbar, My Computer, Recycle Bin
    - 2.5.2.2. Starting and shutting down Windows
    - 2.5.2.3. File Management with Windows Explorer
    - 2.5.2.4. Windows applications: (e.g. Control Panel, Character Map, Paint etc)
    - 2.5.2.5. Finding files of folders and saving the result
    - 2.5.2.6. Starting a program by command line operation
    - 2.5.2.7. Changing window settings
      - 2.5.2.7.1. Adding/Removing programs
      - 2.5.2.7.2. Clearing the contents of document menu
      - 2.5.2.7.3. Customizing the taskbar
      - 2.5.2.7.4. Control panel items
    - 2.5.2.8. Creating shortcut (icons) on desktop
    - 2.5.2.9. System tools:- disk scanning, disk defragmenter, backup, restore, format

## **3. Word Processing**

- 3.1. Concept of Word Processing
- 3.2. Types of Word Processing
- 3.3. Introduction to Word Processor
  - 3.3.1. Creating, Saving and Opening the documents
  - 3.3.2. Elements of Word Processing Environment (Menu, Toolbars, Status bar, Rulers, Scrollbars)
  - 3.3.3. Copying, Moving, Deleting and Formatting Text (Font, Size, Color, Alignment, line & paragraph spacing)
  - 3.3.4. Finding and Replacing Text
  - 3.3.5. Familiar with Devnagari Fonts
  - 3.3.6. Creating lists with Bullets and Numbering
  - 3.3.7. Creating and Manipulating Tables
  - 3.3.8. Borders and Shading
  - 3.3.9. Use of Indentation and Tab Setting
  - 3.3.10. Creating Newspaper Style Documents Using Column
  - 3.3.11. Inserting Header, Footer, Footnotes, Endnotes, Page Numbers, File, Page break, Section break, Graphics, Pictures, Charts, Word Art, Symbols & Organization Chart
  - 3.3.12. Opening & Saving different types of document
  - 3.3.13. Changing Default settings
  - 3.3.14. Mail Merge
  - 3.3.15. AutoCorrect, Spelling and Grammar Checking, and Thesaurus
  - 3.3.16. Customizing menu & toolbars
  - 3.3.17. Security Technique of Documents
  - 3.3.18. Master Document, Cross Reference, Index, Table of Content
  - 3.3.19. Setting Page Layout, Previewing and Printing Documents

## **4. Electronic Spreadsheet**

- 4.1. Concept of Electronic Spreadsheet
- 4.2. Types of Electronic Spreadsheet
- 4.3. Organization of Electronic Spreadsheet application (Cells, Rows, Columns, Worksheet, Workbook and Workspace)
- 4.4. Introduction to spreadsheet application
  - 4.4.1. Creating, Opening and Saving Work Book
  - 4.4.2. Elements of Electronic Spreadsheet Environment (Menu, Toolbars, Status bar, Rulers, Scrollbars)
  - 4.4.3. Editing, Copying, Moving, Deleting Cell Contents
  - 4.4.4. Familiar with Devnagari Fonts
  - 4.4.5. Formatting Cells (Font, Border, Pattern, Alignment, Number and Protection)
  - 4.4.6. Formatting Rows, Column and Sheets
  - 4.4.7. Using Formula - Relative Cell and Absolute Cell Reference
  - 4.4.8. Using basic Functions
  - 4.4.9. Generating Series
  - 4.4.10. Changing default options
  - 4.4.11. Sorting and Filtering Data
  - 4.4.12. Summarizing Data with Sub Totals
  - 4.4.13. Creating Chart
  - 4.4.14. Inserting Header and Footer
  - 4.4.15. Spell Checking
  - 4.4.16. Customizing Menu & Toolbars
  - 4.4.17. Importing from and Exporting into other Formats
  - 4.4.18. Pivot Table, Goal Seek, Scenario & Audit
  - 4.4.19. Page Setting, Previewing and Printing

## **5. Database System**

- 5.1. Introduction to Data, Database and DBMS
- 5.2. Basic Concept of Tables, Fields, Records, Relationships and Indexing
- 5.3. Introduction to database application
  - 5.3.1. Data Types
  - 5.3.2. Creating, Modifying & Deleting Tables and Formatting & Validating Field Data
  - 5.3.3. Creating, Modifying, Deleting & Using Simple Queries
  - 5.3.4. Creating, Modifying & Deleting Forms/Reports/Macros

## **6. Presentation System**

- 6.1. Introduction to presentation application
  - 6.1.1. Creating, Opening & Saving Slides
  - 6.1.2. Formatting Slides
  - 6.1.3. Slide Show
  - 6.1.4. Animation
  - 6.1.5. Inserting Built-in picture, Picture, Table, Chart, Graphs, Organization Chart

## **7. Web page Designing**

- 7.1. Introduction to Web Page and CMS (Content Management System)
- 7.2. Introduction to HTML
  - 7.2.1. HTML document
  - 7.2.2. Tags
  - 7.2.3. Skeleton & Flesh
    - 7.2.3.1. Text

- 7.2.3.2.Hyperlinks
- 7.2.3.3.Images
- 7.2.3.4.Lists & forms
- 7.2.3.5.Tables
- 7.2.3.6.Frames

## 8. Knowledge of Video Conferencing Tools (Zoom, Meet, Team)

## 9. Legislations and IT in Nepal

- 9.1. नेपालको संविधान (भाग १ देखी ५ तथा अनुसूचीहरू) The Constitution of Nepal (From Part 1 to 5 and Schedules)
- 9.2. स्थानीय सरकार संचालन ऐन, २०७४ मा सूचना तथा सञ्चार प्रविधि सम्बन्धी व्यवस्था (Local Government Operation Act, 2074 (Provisions related to ICT)
- 9.3. IT Policy of Nepal
- 9.4. Electronic Transaction Act, 2063 B.S.
- 9.5. सूचना प्रविधिको क्षेत्रमा प्रदेश नं. १ सरकारले चालेका कदमहरू

### नमूना प्रश्नहरू (Model Questions)

- 1. Workbook is collection of?
  - a. Cells
  - b. Worksheets
  - c. Workspaces
  - d. Projects
  
- 2. Microsoft Access is a
  - a. RDBMS
  - b. OODBMS
  - c. ORDBMS
  - d. Network Database Model
  
- 3. What does the .com domain represents?
  - a. Education
  - b. Commercial
  - c. Network
  - d. Organization
  
- 4. The simultaneous execution of two or more instruction is called
  - a. Sequential access
  - b. Reduced instruction set computing
  - c. Multiprocessing
  - d. Dynamic processing
  
- 5. ASCII stands for
  - a. American Stable Code for International Interchange
  - b. American Standard Case for Institutional Interchange
  - c. American Standard Code for Information Interchange
  - d. American Standard Code for Interchange Information