5COMPUTER SCIENCE
For Class IX (marks 55)

1. **Introduction to Computers**
   o History and development of computers
     - Types of computers (analogue, digital, hybrid)
     - Classification of digital computers (micro, mini, mainframe and super computer)
   o Impact of computers and the internet on society
   o Introduction to programming languages (high level, medium level and low level) concepts of compiler, interpreter and assembler.

2. **Computer Components**
   o Central Processing Unit (CPU),
     - Control Unit (CU),
       Arithmetic and Logic Unit (ALU)
     - Busses: Data bus, Address bus, Control bus
   o Primary/Main memory (RAM, ROM) Secondary memory,
   o Input/output devices,
   o Ports: serial and parallel ports
   o Motherboard

3. **Input/Output Devices**
   o Input devices:
     - Key board, mouse, joystick, scanner, trackball, light pen, voice microphone, digital video camera, disk drive
   o Output devices:
     - Monitors, printers and their kinds (daisy wheel, line, electrostatic, inkjet, electro thermal and laser), plotters, CD writer, disk drive (concept of soft copy and hard copy)

4. **Storage Devices**
   o Main memory:
     - RAM, ROM, SIMM, DIMM
   o Memory units:
     - Bits, byte (K bytes, M bytes, G bytes and T bytes).
     - Secondary memory;
     - Floppy disk, hard disk, compact disk, magnetic tape.

5. **Computer Software**
   o Types of software:
     - System software (operating system, programming language translator, service software and examples),
     - Application software,
   o DOS Commands:
     - Executable Files, EXE, COM and BAT,
     - DIR with Switches, CLS, DATE, TIME, COPY, VER, DEL, TYPE, FORMAT, COPY PRINT, SYS, CHKDSK, EDIT, XCOPY, DELTREE, PROMPT, REM,
   o Create or make directory,
   o Remove/Delete command, and other commonly used commands,
   o Paths.

6. **Introduction to WINDOWS**
   o Startup process of WINDOWS,
   o Components of WINDOWS:

- Title bar,
- Status bar,
- Scroll bars,
- Menu bar,
- Dialog boxes,
- o Familiarization with WINDOWS icons:
  - My Computer,
  - Recycle Bin,
  - Start Button,
  - Control Panel,
  - Other sub menus,
  - Clicking the start button, beginning with taskbar,
  - Shut down process,
- o Demonstration of installation procedure for WINDOWS,
- o Viruses and anti-virus.

7. Computer Application (Word Processor)
- o Introduction to word processing,
- o Loading a word processing program (MS WORD):
  - Typing, saving, exiting,
  - Text formatting,
  - Document formatting,
  - Blocking, moving blocks of text,
  - Indenting,
  - Fonts, page layout, printing.

PRACTICALS
For Class IX (marks 20)

1. Familiarization of DOS commands (external commands) as given in chapter 7.
2. Familiarization of DOS commands (internal commands) as given in chapter 7.
3. Demonstration of the installation of WINDOWS.
4. Demonstration of computer components: (cards, motherboards, buses, connectors, serial ports and other important ICs).
5. Familiarization with WINDOWS (all the WINDOWS icons) including shutdown process.
6. Use of the mouse.
7. Opening, creating, saving, deleting and printing files in MS-WORD.
8. Editing MS-WORD documents.

RECOMMENDED REFERENCE BOOKS FOR CLASS IX

The question paper will be syllabus oriented. However, the following books are recommended for reference and supplementary reading:

1. Computer Science
   National Book Foundation, Islamabad
2. Computer Science
   Punjab Text Book Board, Lahore
3. Computer Science
   NWFP Textbook Board, Peshawar
4. Computer Science
   Baluchistan Textbook Board, Quetta

5.   A Textbook of Computer Science for class IX-X
        Prof. Shaukat Ayub Burki
        Gaba Educational Book
        Urdu Bazaar, M.A. Jinnah Road, Karachi

Federal Board SSC-I Examination
Computer Science Practical
Model Question Paper

Time allowed: 2 hours   Total Marks: 20

Note: Attempt all the questions.

Q.1   Perform any five of the following DOS commands:

    a.   Hide a file "test" with extension "txt".   **(1)**

    b.   Create two directories "ABC" and "XYZ" in the same drive (ABC must be with XYZ).   **(1)**

    c.   Copy any existing file from current drive or directory to any other drive or directory.   **(1)**

    d.   Compare any two text files.   **(1)**

    e.   Delete the directory "XYZ" created in part-b.   **(1)**

    f.   Compare RENAME and MOVE commands with an example.   **(1)**

Q.2   Perform any four of the following MS-Windows tasks:

    a.   Using accessibility options; how you can move the mouse pointer with the help of keyboard.   **(1)**

    b.   Change the character repeat delay of keyboard through control panel.   **(1)**

    c.   Lock or unlock the task bar.   **(1)**

    d.   Clear "My recent documents" from start menu.   **(1)**

    e.   Hide or show file extensions.   **(1)**

    f.   Change the icon of recycle bin.   **(1)**

Q.3   Type the following paragraph.   **(1)**

A Company needs a computer for weather forecasting, which computer is best for this purpose?

       Mainframe
       Super
       Mini
       Laptop

a.   The first character must be drop cap cased for two lines.   **(1)**
b.   Assign bullets to the last four lines.   **(1)**
c.   Divide the bulleted lines into two columns.   **(1)**
d.   Add a header "Federal Board of Intermediate and Secondary Education" to the right-hand corner.   **(1)**
e.   Change the alignment of the paragraph as "justified".   **(1)**

Viva Voce   **(3)**

Note Book   **(2)**

_____