

FORM 2
COMPUTER STUDIES
END TERM 2 EXAMINATION
JULY/AUGUST 2025
MARKING SCHEME

SECTION A (40 Marks)

1.
 - a. A computer system is a combination of hardware, software, and users that work together to perform computing tasks. (2 Marks)
 - b. Characteristics of a computer: Speed, Automation, Accuracy. (Any 3 - 1 Mark each)
2. Hardware: Physical parts of a computer.
Software: Programs and instructions used by a computer. (3 Marks)
3. Examples of secondary storage devices: Hard disk, Flash drive. (2 Marks)
4. Function of an Operating System: Manages hardware resources, provides user interface. (2 Marks)
5. Types of system software: Operating system, Utility programs. (2 Marks)
6. Advantages of a spreadsheet: Faster calculations, Easy data modification. (2 Marks)
7. Liveware: User of a computer
Firmware: form of microcode or program embedded into hardware devices to help them operate effectively. (2 Marks)
8. Application software examples: Word processor, Spreadsheet, Database. (Any 3 - 1 Mark each)
9. RAM: Temporary storage, volatile.
ROM: Permanent storage, non-volatile. (3 Marks)
10. Factors to be considered when purchasing a printer: cost, speed (mode of printing), availability, ease of use and maintenance, purpose etc. (2 Marks)
11. Input device purpose: Enables user to enter data. Examples: Keyboard, Mouse. (3 Marks)

12. Editing: Making necessary changes to a document

Formatting: enhancing the appearance of a document. (2 Marks)

13. Functions of a UPS: Prevents power surges, Provides backup power. (3 Marks)

14. Antivirus: Detects and removes malware. (2 Marks)

SECTION B (60 Marks)

QUESTION 16 - Computer System Diagram (10 Marks)

Labels (5 Marks - 1 Mark each)

Functions of Components (5 Marks - 1 Mark each)

QUESTION 16 (10 Marks)

(a) Definition of a computer - 2 Marks

(b) Disk formatting prepares a storage device for use by establishing a file system structure and rules for accessing data. It can also involve deleting existing data while Disk partitioning or disk slicing is the creation of one or more regions on secondary storage, so that each region can be managed separately.

(4 Marks)

(c) Two first-generation computers: ENIAC, UNIVAC (2 Marks)

(d) Analog vs Digital Computers: Analog - continuous data, Digital - discrete data (2 Marks)

QUESTION 17 - Excel Spreadsheet (10 Marks)

(a) Total formula: =B2+C2 (2 Marks)

(b) Average formula: =(B2+C2)/2 (2 Marks)

(c) IF function: =IF(D2>=50, 'Pass', 'Fail') (3 Marks)

(d) Sorting function used correctly (3 Marks)

QUESTION 18 - Computer Hardware (10 Marks)

(a) Definition of hardware - 2 Marks

- (b) Input devices (4 Marks)
- (c) Laser vs Inkjet printers (2 Marks)
- (d) Difference between primary and secondary storage (2 Marks)

QUESTION 19 - Operating Systems (10 Marks)

- (a) Definition of OS - 2 Marks
- (b) Four functions: Resource management, User interface, File management, Security (4 Marks)
- (c) Examples of mobile OS: Android, iOS (2 Marks)
- (d) Multi-user vs Single-user OS: Multi-user supports many users, Single-user supports one user (2 Marks)

