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TECHNOLOGY

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QUESTION I

a. Define a computer and explain its four major functions.

A computer is an electronic device that accepts data as input, processes it according to instructions, stores it, and produces output as information.

Four major functions:

- Input: Receiving data (keyboard, mouse)
- Processing: Converting data into information (CPU)
- Storage: Saving data (hard drive, RAM)
- Output: Displaying results (monitor, printer)

b. Describe the basic components of a computer system with examples.

- Input devices: Keyboard, mouse, scanner
- CPU: Controls operations and processes data
- Memory/Storage: RAM (primary), Hard disk (secondary)
- Output devices: Monitor, printer, speakers

QUESTION 2

a. Differentiate between hardware and software.

- i. Hardware: Physical parts (keyboard, monitor)
- ii. Software: Programs (Windows, MS Word)

b. Explain the two major types of software, giving at least three examples each.

- System software: Windows, Linux, macOS
- Application software: MS Word, Excel, Chrome

QUESTION 3

a. Explain the concept of Booting

Booting is the process of starting a computer and loading the operating system.

b. Describe the step- by- step booting process of a computer system.

1. Power on
2. BIOS/UEFI runs (POST)
3. Boot device detected
4. OS loads into RAM
5. Login screen appears
6. System ready

QUESTION 4

a. Define File management .

File management is organizing and managing files.

b. Explain five common File management and their importance

File operations:

- Create: Make new files
- Open: Access files
- Save: Store changes
- Rename: Organize files
- Delete: Remove unwanted files

QUESTION 5

a. Discuss the application of computer in healthcare or animal health services.

Applications in healthcare:

- Record keeping
- Diagnosis support
- Lab analysis
- Imaging (X-ray, ultrasound)
- Communication (telemedicine)

b. Highlight four computer problems and their solutions.

Problems and solutions:

- Slow performance: Clean files, upgrade RAM
- Virus: Use antivirus
- Not turning on: Check power
- Software crash: Update/reinstall