# Peripheral Devices

1. Match each of these peripheral devices with its function.

| Device | Function |
|---|---|
| Peripheral | c |
| Sequential Access | e |
| Random Access | b |
| On-Line | a |
| Off-Line | d |

**Functions**

a. A device that operates by exchanging information with the mainframe.

b. A device in which information can be read or written directly without scanning all information that comes before the desired area.

c. A functional unit of a computer system that performs input, output, or auxiliary storage and is not part of the mainframe.

d. A device that operates independently from the mainframe.

e. A device in which information is read from or written onto the medium in an ordered line.

2. Match each of these peripheral device parts with its function.

| Device Part | Function |
|---|---|
| Medium | c |
| Drive Mechanism | b |
| Control Circuit | a |

**Functions**

a. Oversees the transfer of data into the computer mainframe.
b. Physically moves the medium.
c. Physically holds information.

3. Indicate whether each of the following machine-oriented I/O devices functions as an input (I), an output (O), or both an input and output (B) device by writing the correct letter in the space provided.
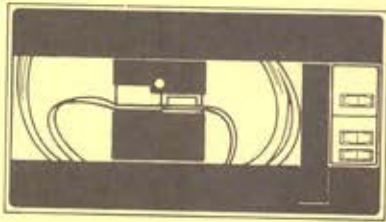
| Device | Function(s) |
|---|---|
| Magnetic Disk Unit | B |
| Paper Tape Reader | I |
| Data Communication Unit | B |
| Card Punch | O |
| Floppy Disk Unit | B |
| Analog to Digital Converters | I |
| Paper Tape Punch | O |
| Magnetic Tape Unit | B |
| Card Reader | I |
| Tape Cartridge and Cassette | B |

4. Each of the following statements describes or compares various machine-oriented I/O media. Indicate whether each statement is true (T) or false (F) by writing the correct letter in the space provided.
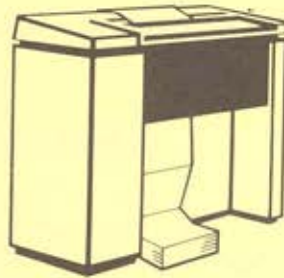
| Statement | T or F |
|---|---|
| Magnetic tape is more expensive than magnetic disks. | F |
| Both punched cards and floppy disks are low cost media. | T |
| In general, magnetic disks can store twice as much as magnetic tapes. | F |
| A deck of punched cards may be accessed either sequentially or directly. | F |
| Disks are direct-access media. | T |
| Punched cards and paper tape have the slowest access rate. | T |
| Punched cards and paper tape are the only human-readable media. | F |
| Magnetic tapes may be rewritten whereas magnetic disks cannot. | F |
| Magnetic tapes require less storage space than punched tape. | T |
| In general, tapes are sequential-access media. | T |

5. Six drawings of machine-oriented and people-oriented input/output devices and six device names are given below. Match each drawing with its corresponding device name by writing the correct letter in the space provided.
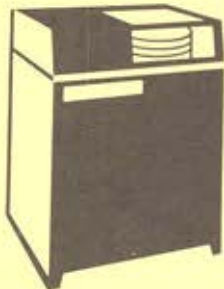
a.



b.



c.



d.



e.



f.



| Device | Picture |
|---|---|
| Line Printer | b |
| Card Reader | f |
| Display Terminal | d |
| Disk Unit | c |
| Paper Tape Reader/Punch | a |
| Teleprinter | e |

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6. Match the two media pictured below with the names of their corresponding devices.

a.

b.
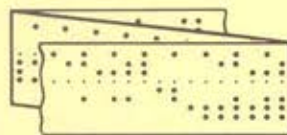


| | |
|---|---|
| Paper Tape Reader/Punch | b |
| Disk Unit | a |
| Magnetic Tape Unit | ___ |

7. Each of the following statements describes or compares people-oriented I/O devices. Indicate whether each statement is true (T) or false (F) by writing the correct letter in the space provided.

| Statement | T or F |
|---|---|
| Teleprinters and display terminals can both input and output. | T |
| Teleprinters, display terminals, and line printers can operate either on-line or off-line. | F |
| Line printers produce hard copy output whereas most display terminals do not. | T |
| Teleprinters are faster and quieter in operation than display terminals. | F |
| Teleprinters, display terminals, and line printers may input via keyboard. | F |
| In general, line printers and teleprinters can output at the same speed. | F |
| Most teleprinters can output either hard or soft copy. | F |

8. The table below is concerned with auxiliary storage devices and their characteristics. Complete the table by writing the correct letters in the spaces provided.

| Characteristic | Moving Head Disk | Fixed Head Disk | Magnetic Tapes |
|---|---|---|---|
| Data Transfer Time | c | b | a |
| Storage Capacity | d | e | f |
| Cost per Bit | i | g | h |

| Data Transfer Time | Storage Capacity | Cost per Bit |
|---|---|---|
| a  Slowest | d. Medium | g. High |
| b. Fastest | e. Least | h. Lowest |
| c. Medium | f. Most | i. Medium |