

This question paper contains 4 printed pages.

83E

Electronics and Hardware

(English version)

Time : 2 hours]

[Maximum Marks : 30

PART - A

NOTE : Answer **all** the questions in **Part-A**.

I. Choose the correct answer from the given multiple choices. 5×1=5

1. USB 3.0 supports speeds of upto
 - (A) 1.5 Mbps
 - (B) 5 Gbps
 - (C) 480 Mbps
 - (D) 12 Mbps

2. All PATA connectors are pin rectangular connectors.
 - (A) 39
 - (B) 42
 - (C) 40
 - (D) 41

3. Which peripheral device is used to connect to the PS / 2 port ?
 - (A) Printer
 - (B) Scanner
 - (C) Monitor
 - (D) Mouse

4. HDMI 1080 uses a resolution of
- (A) 640×480
 - (B) 1920×1080
 - (C) 1024×768
 - (D) 800×600
5. The PPM terminology in Printer determines the
- (A) Speed of the Printer.
 - (B) Type of the Printer.
 - (C) Quality of the Printer.
 - (D) Size of the printer.

II. Match the following :

5×1=5

- | | |
|-------------------|----------------------------|
| 1. SATA 2 | (a) Stripping with parity. |
| 2. RAID level 0 | (b) Characters per second. |
| 3. Keyboard | (c) 3.0 Gbits / s. |
| 4. RAID level 5 | (d) Input device. |
| 5. Impact printer | (e) Stripping. |

III. TRUE or FALSE.

5×1=5

- 1. Tracks & sectors are the logical components of Hard drive.
- 2. USB 3.0 device in USB 2.0 port supports speed of 5 Gbps.
- 3. PCIe × 1 card can be inserted into PCIe × 16 slot.
- 4. VGA cable is used to transfer both video & audio signals.
- 5. Thermal printers heat up the paper to print the output.

PART - B

I. Answer the following questions in one sentence. **5×1=5**

1. List the different types of external connections.
2. SATA stands for
3. What are the common problem symptoms of Hard disk drives and RAID arrays ?
4. Which colour port is used to connect the Microphone ?
5. Define the concept of Duplexing in Printer.

II. Answer **ANY TWO** questions : (Short answers). **2×1=2**

1. What is RAID ?
2. What is Peripheral ?
3. What are the different types of Display devices ? Expand them.
4. What are Inkjet Printers ?

III. Answer **ANY TWO** questions : (Brief answers). **2×2=4**

1. Expand IDE, ATA, USB & SCSI.
2. What are the primary versions of DVI ?
3. Write down the different versions of USB with their speeds.
4. What are the steps to share a printer on Windows 7 ?

[4]

IV. Answer ANY ONE question : (Long answer).

1×4=4

1. What is Hard drive ? Explain the different components of Hard drive.
 2. Briefly describe each port at the back of an older computer.
 3. What are the steps required for adding a Network Printer ?
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