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 ?

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 ?
