12425

3 Hours / 70 Marks   Seat No. ☐☐☐☐☐☐☐☐

Instructions :   (1)   All Questions are *compulsory.*

(2)   Answer each next main Question on a new page.

(3)   Illustrate your answers with neat sketches wherever necessary.

(4)   Figures to the right indicate full marks.

(5)   Assume suitable data, if necessary.

(6)   Preferably, write the answers in sequential order.

Marks

1.   **Attempt any FIVE of the following :**   **10**

(a)   State different components of motherboards.

(b)   Describe troubleshooting steps to fix non responsive buttons in smart phone.

(c)   Enlist different types of storage devices.

(d)   Enlist any 4 softwares used for speed test in mobile phones.

(e)   Define performance analysis of mobile phones.

(f)   Enlist types of printers.

(g)   Write any two uses of nmon tool.

2. **Attempt any FOUR of the following :** 12

(a) Draw and name the block diagram of laptop motherboard.

(b) Distinguish between SSD and HDD.

(c) Describe any three sensors used in mobile phone.

(d) Write steps to modify attributes of connectable device.

(e) Explain step by step procedure for disk defragmentation.

3. **Attempt any FOUR of the following :** 12

(a) Differentiate between DRAM and SRAM (any three).

(b) Explain Mini Molex connector with pins.

(c) How smart phone is different than tablet, explain with example.

(d) Draw neat and labelled block diagram of LED monitor.

(e) Define aspects related to bench mark testing of smartphone performance :

(i) display quality (ii) speaker output

4. **Attempt any THREE of the following :** 12

(a) Describe the role of RAM stick type names (as DDR2, DDR3, DDR4)

(b) Explain : (i) power supply standards (ii) power wattage

(c) Describe trouble shooting procedure for memory issues in computer :

(i) Blue screen error (ii) Bad sector problem

(d) Write any 4 specifications of the tablet.

(e) Explain with example use of APM Application Performance Management tool.

5. **Attempt any THREE of the following :** 12

(a) Write troubleshoot process for SMPS power doesn't come and PC powers on runs POST but there is no response.

(b) Describe primary and secondary storage regarding computer.

(c) System having sufficient quantity of area to satisfy memory request but these areas are non contiguous. Write steps to trouble shoot such fragmentation.

(d) Explain working principle of thermal printer.

(e) User A wants to create three sections in his computers' hard disk. Write step by step procedure to create such sections in hard disk with respect to Microsoft window operating system.

6. **Attempt any TWO of the following :** 12

(a) Describe the procedure to create storage device as boot media for operating system installation. Also explain storage device configuration for such installation.

(b) Explain cold testing and hot testing performed in mobile phones. Also give significance of GSM system and PCB tracing in tablets.

(c) Write steps for configuration of printer, wifi router, scanner to the Microsoft windows operating system laptop.

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