

22394

24225

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

10

- (a) In motherboard, BOIS is stand for ?
- (b) Describe troubleshooting steps to fix non-responsive buttons in smart phone.
- (c) State where PCI express lane present in motherboard.
- (d) Enlist components in laptop.
- (e) State any two uses of Application performance tool.
- (f) Write any four output devices.
- (g) Write any four features of CPU benchmark test.

2. Attempt any FOUR of the following :

12

- (a) Draw block diagram of smart phone.
- (b) Distinguish between SSD & HDD.
- (c) Describe working of any three sensors used in smart phone.
- (d) State and explain steps to modify attributes of connected devices.
- (e) Enlist CPU benchmark test using tools.



- 3. Attempt any FOUR of the following : 12**
- (a) Describe the significance of UE FI motherboard firmware.
 - (b) Write function of Mini Molex connector.
 - (c) Enlist components of smart phone and explain function of any two components.
 - (d) Draw neat and labelled diagram of LCD monitor.
 - (e) State and explain steps involved in performance tuning of computers.
- 4. Attempt any THREE of the following : 12**
- (a) Describe the significance of RAM stick type names as DDR2 & DDR3.
 - (b) Explain smart phone charger specifications.
 - (c) Enlist hardware problems in smart phone and describe any two.
 - (d) Describe working principle of mouse and explain mouse interfaces.
 - (e) Write a note on : (i) Response time for system & (ii) Mean time between failure.
- 5. Attempt any THREE of the following : 12**
- (a) Explain step by step procedure for troubleshooting laptop motherboard.
 - (b) Distinguish between power supply adaptors of laptop.
 - (c) System is having sufficient quantity of area to satisfy memory request but these areas are non-contiguous. Write steps to troubleshoot such fragmentation.
 - (d) Describe the procedure for checking the error log listing in all connected devices.
 - (e) User A wants to create three sections in his computer's hard disk. Write step by step procedure to create such sections in hard disk with respect to Microsoft windows operating system.
- 6. Attempt any TWO of the following : 12**
- (a) Draw neat labelled functional block diagram of power supply unit and what are the steps performed for fault findings in PSU.
 - (b) Explain cold testing and hot testing in smart phones.
 - (c) Troubleshoot printer issues mentioned below :
 - (i) Printer is not taking paper
 - (ii) A blank sheet of paper prints after each time of printing
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