A	2	0
4	Z	9

Register No.:	ĺ		

April 2019

<u>Time - Three hours</u> (Maximum Marks: 75)

[N.B: (1) Q.No. 8 in PART - A and Q.No. 16 in PART - B are compulsory.

Answer any FOUR questions from the remaining in each PART - A
and PART - B

- (2) Answer division (a) or division (b) of each question in PART C.
- (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C.]

PART - A

- What is RTC?
- 2. What is a chipset?
- 3. What is a wait state?
- 4. What is key bouncing?
- 5. What is a power good signal?
- 6. What is a TFT display?
- What is ESD?
- 8. What are the various IC's used in mobile phones?

PART - B

- 9. Write briefly about hardware, software and firmware.
- 10. Differentiate a north/south bridge architecture from a hub architecture.
- Explain the formatting of a HDD.
- 12. Explain about the working of a optical mouse.
- 13. Distinguish between cold and warm booting.
- 14. Explain briefly about the post error and beep codes.
- 15. Describe the uses of battery booster.
- Differentiate between active maintenance and passive maintenance.

[Turn over

185/48-1

PART - C

17. (a) Explain in detail about the various motherboard components with a neat block diagram.

(Or)

- (b) (i) Explain about the hub architecture with a neat block diagram.
 - (ii) Explain about the USB bus standard with a neat block diagram.
- 18. (a) (i) Explain about the different types of main memory.
 - (ii) Draw the troubleshooting flowchart of a mouse and explain.

(Or)

- (b) (i) Explain about the various blu-ray disc parameters and the recording principle.
 - (ii) With a neat block diagram explain the operation of a laser printer.
- 19. (a) Explain the operation of a SMPS with a neat block diagram.

(Or)

- (b) Explain with a neat block diagram, the functioning of a video capture card.
- 20. (a) (i) Explain the working principle of a laptop with block diagram.
 - (ii) Explain in detail about formatting and partitioning of a laptop hard disk.

(Or)

- (b) (i) Explain in detail about the various types of batteries used in a laptop.
 - (ii) Explain in detail about the upgrading of memory and BIOS of a computer systems.
- 21. (a) (i) Explain in detail about the various components of a mobile.
 - (ii) Explain about flashing ar prmatting of mobiles.

(Or)

- (b) (i) Explain briefly about the various troubleshooting techniques for a mobile.
 - (ii) Explain in brief about mobile viruses and precautions to be taken.

185/48-2