

**October 2018**

*Time - Three hours*  
*(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

1. Define processor bus.
2. What is access time?
3. Define barcode scanner.
4. Define power good signal.
5. Give the types of SMD components.
6. List the types of laptop batteries.
7. Define mobile.
8. Define key bouncing.

PART - B

9. Write the features of Core 2 Duo processor.
10. Write any five features of PCI bus.
11. List the types of keys and write their uses.
12. Define graphics card. Write its applications.
13. Write the steps for upgrading the memory.
14. Give the differences between laptop and desktop.
15. Write the uses of secret codes.
16. List the common failures of SMPS.

[Turn over.....

PART - C

17. (a) Explain mother board architecture.  
(Or)  
(b) Explain Core 'i' series processors.
18. (a) Briefly explain about the recording and playback principles of blu-ray disc.  
(Or)  
(b) Explain briefly about laser printer.
19. (a) Explain post faults related to hardware.  
(Or)  
(b) Explain the principles of operation of SMPS.
20. (a) Briefly explain about laptop components.  
(Or)  
(b) How to upgrade motherboard and CPU?
21. (a) Explain three types of routing.  
(Or)  
(b) (i) Write short notes on mobile viruses.  
(ii) Write short notes on antivirus software.