

April 2024

Time - Three hours
(Maximum Marks: 100)

- IN.B.***
1. Answer all questions under Part-A. Each question carries 3 marks.
 2. Answer all the questions either (a) or (b) in Part-B. Each question carries 14 marks.]

PART - A

1. What is firmware?
2. List out the uses of Jumpers.
3. Differentiate primary memory from secondary memory.
4. List the types of keyboard.
5. Define cold booting.
6. Define POST.
7. What is hardware up-gradation?
8. Why do we need WLAN in Laptop?
9. What is RDMA?
10. State Moore's law.

[Turn over

PART - B

11. (a) Explain about Core2 Duo processor and Quad core processor.
(Or)
(b) Explain AGP and USB bus standards.
12. (a) (i) Explain Blu-ray disc and its features. (7)
(ii) Explain USB Flash drive and its features. (7)
(Or)
(b) (i) Explain about Laser printer with neat diagram. (7)
(ii) Explain about Barcode reader with neat diagram. (7)
13. (a) Explain about SMPS working principles with block diagram.
(Or)
(b) (i) Explain about the working principle of LED display. (7)
(ii) How to upgrade existing BIOS? Explain the steps involved in it. (7)
14. (a) Explain about Trouble shooting of laptop and desktop problems.
(Or)
(b) (i) Explain the steps for assembling and disassembling of Mobile Phone. (7)
(ii) Explain about Pocket PC. (7)
15. (a) Explain about Magnetic random-access memory (MRAM) and Spin-Transfer Torque Random-Access Memory (STT-RAM).
(Or)
(b) Explain about Embedded Board and the von Neumann Model with their diagrams.