April 2023

Time – Three hours
(Maximum Marks: 100)

[N.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. Define cache and its types.

2. What is AGP?

3. Name the type of Laser used in Blu-ray disk.

4. List types of keyboard.

5. Define cold booting.

6. Define POST.

7. What are the types of software?

8. What are the different IC's used in mobile phone?

9. State the scope of MRAM.

10. What are the advantages of embedded system?

[Turn over.....

PART – B

11. (a) Explain about Xeon Processor with neat diagram.

   (Or)

   (b) Explain about Hub Architecture with neat diagram.

12. (a) (i) Explain Memory Stick 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 Thermal printer with neat diagram. (7)

13. (a) Explain about SMPS working principles with block diagram.

   (Or)

   (b) (i) Explain about the working principle of LED for display. (7)
      (ii) How to upgrade existing BIOS? Explain the steps involved in it. (7)

14. (a) Explain working principle of laptop.

   (Or)

   (b) (i) Briefly explain the procedure for backup and recovery. (7)
      (ii) Illustrate the steps to be followed to install OS in Mobile. (7)

15. (a) Briefly explain about the Architecture of NVM Technology.

   (Or)

   (b) (i) Explain about AC circuits, DC circuits. (7)
      (ii) How Ferroelectric RAM works? Explain. (7)