36002

BT-6 / M-18

COMPUTER HARDWARE TECHNOLOGIES
Paper–CSE-304 Opt.-I

Time allowed : 3 hours]   *[Maximum marks : 100*

Note :-   *The candidate is required to attempt five questions in all selecting at least one question from each unit.*

Unit–I

1. (a) What are the improvements made in memory design in order to enhance the performance of a computer system? 10

    (b) Discuss the different ways in which memory modules are assembled.   10

2. Describe the objectives of a good UPS system for PCs and also highlight the kind of specification needed.   20

Unit–II

3. (a) How BIOS acts as an intermediary between the parts of the computer?   10

    (b) Outline the key components in a typical motherboard layout.   10

4. (a) How IRQ resources are completely different from the memory address and I/O port address resources?   10

    (b) Give a performance comparison of AGP and PCI system bus.   10

(2)

Unit–III

5. (a) Why USB are proving to be good replacement for the serial and parallel ports on the computers?   10

    (b) Discuss the characteristics of video adapter in term of its components and video memory requirements.   10

6. (a) Why Master/Slave configuration is required to connect devices using ATA interface? Also explain the possible jumper configurations for the same.   10

    (b) Give a performance comparison between SCSI and IDE interface.   10

Unit–IV

7. Explain in detail the various components of a typical CD-ROM drive.   20

8. (a) What are the important features of a printer that affect the quality of print out?   10

    (b) What is the technology used in LCD monitors? Also explain the pros and cons of LCD monitors.   10