8602

BT–6/M12

COMPUTER HARDWARE TECHNOLOGIES

Paper–CSE-304

Time allowed : 3 hours]   [Maximum marks :100

Note : Attempt *five* questions in all, selecting at least **one** question from each unit.

Unit–I

1. (a) What do you mean by backup power system and SMPS ? Which techniques are used to design those ?   10

   (b) Write short note on refresh rate, DIMM, and DDR.   10

2. (a) Which type of memory technology is being used now a day's e.g. in i5 and i7 processors ?   10

   (b) What guidelines are followed during the choice of a UPS ? Also discuss the technology used for power controlling and storing in UPS.   10

Unit–II

3. Differentiate between :   5×4
   (a) EISA and VESA.
   (b) Serial and Parallel Port.
   (c) Dual core and Quad Core
   (d) 32 bit and 64-bit based system.

4. (a) Discuss the characteristics and role of the various standard buses. 10

(b) What are the different methods to allocate system resources ? 10

Unit–III

5. (a) What do you mean by SCSI interface ? How many devices can be attached to a single SCSI controller and how it identifies its devices ? 12

(b) Compare SCSI and IDE. 8

6. (a) Give the details of the device classes of SCSI. 10

(b) What do you mean by parallel port ? Which types of devices can be attached with this port ? 10

Unit–IV

7. (a) Discuss the various categories of printers commonly used. 10

(b) Discuss important points for troubleshooting drives and peripherals. 10

8. (a) Write short notes on CD ROM and DVD ROM drivers. 12

(b) How data is input through keyboard ? 8

8602 –4,550