Total No. of printed pages = 6

END SEMESTER EXAMINATION—2022

Semester : 5th (New)

Subject Code : Et-504

PERSONAL COMPUTER SYSTEM TECHNOLOGY (PCST)

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks for the questions.

Instructions :

(i) *All* questions of PART–A are compulsory.

(ii) Answer any *five* questions from PART–B.

PART–A

Marks–25

1   Choose the correct answer :   1×10=10

   (i) One Exabyte is equal to

   (a) 2^{50} Byte   (b) 2^{60} Byte

   (c) 2^{70} Byte   (d) 2^{80} Byte

(ii) A Modem is a

    (a) Input Device

    (b) Output Device

    (c) Both Input and Output Devices

    (d) None of the above

(iii) Which of the following is the fastest memory ?

    (a) Hard Disk   (b) Compact Disk

    (c) SRAM   (d) DRAM

(iv) SCSI is a standard for

    (a) Video memory

    (b) Hard Disk interfacing

    (c) Expansion Slot

    (d) None of the above

(v) Which of the following file is not a system file in DOS/Win9X ?

    (a) IO.SYS

    (b) MSDOS.SYS

    (c) BOOT.INI

    (d) COMMAND.COM

(vi) The partitioning information of HDD are stored onto

(a) MBR   (b) VBR

(c) FAT   (d) Root Directory

(vii) How many pins are there in a USB connection ?

(a) Two   (b) Three

(c) Four   (d) Five

(viii) A light-sensitive device that converts the printed text, drawing, or other images into digital form is called
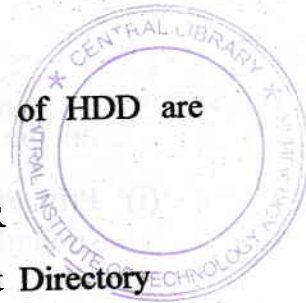
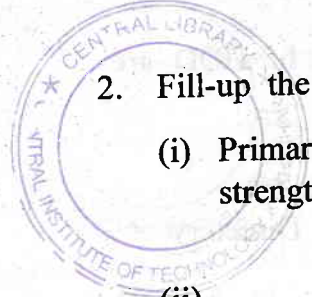(a) Plotter   (b) Printer

(c) Scanner   (d) OMR

(ix) The highest DC voltage level from a SMPS in a PC is

(a) 5 volt   (b) 6 volt

(c) 9 volt   (d) 12 volt

(x) Which one from the following is not an advantage of Laptops as compared to Desktop computers ?

(a) Portability   (b) Power Consumption

(c) Upgradeability   (d) None of these

8/Et-504/PCST   (3)   [Turn over

2. Fill-up the blanks : 1×8=8

(i) Primarily _____ bus width determines the strength of a microprocessor.

(ii) _____ determines the architecture of a motherboard.

(iii) The BIOS-ROM that can be soft updated is called _____ BIOS.

(iv) _____ is the latest version of Microsoft's OSfor PCs.

(v) Temporary use of hard disk space as memory by operating system is called _____.

(vi) AGP is a standard for _____ interface.

(vii) The motherboard power connector of an AT SMPS has _____ pin connectors.

(viii) Presently _____ types of batteries are the most commonly used in laptops.

3. Write true or false : 1×7=7

(i) Invariably Cache memory is implemented by Static RAM.

(ii) MS-DOS is a 64-bit operating system.

(iii) POST is the most basic software that runs the PC.

(iv) A Solid-State Drive (SSD) is a magnetic type storage device.

(v) The legacy serial ports in PC are also called COM port.

(vi) An Ink-Jet printer is a non-contact type of printer.

(vii) The battery Ampere-Hour (Ah) determines the backup time of an UPS.
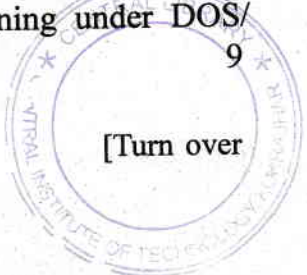
PART – B

Marks – 45

1. List and give brief idea of different supporting components used on a PC motherboard.   9

2. What is BIOS ? Explain the functions of motherboard BIOS.   9

3. Explain the construction and working of a Hard Disk Drive.   9

4. What do you understand by disk partitioning ? Explain the hard disk partitioning under DOS/ Windows in brief.   9

5. Explain the hard disk data organization with reference to MBR, VBR etc. 9

6. Classify different types of printer and compare the features of commonly used printers. 9

7.. What are the different power line disturbances ? What are their remedies ? Explain in brief. 9

8. Write short notes on any *two* : 4.5×2=9

   (a) Expansion slot

   (b) General Purpose I/O Ports

   (c) File Systems

   (d) UPS

   (e) Laptop Computers.