

Total No. of printed pages = 6

**END SEMESTER EXAMINATION - 2021**

Semester : 5th

Subject Code : Et-504

**PERSONAL COMPUTER SYSTEM  
TECHNOLOGY**

Full Marks - 70

Time - Three hours

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

**Instructions :**

1. *All* questions of PART - A are compulsory.
2. Answer *any five* questions from PART - B.

PART - A

Marks - 25

1. Choose the correct answer :  $1 \times 10 = 10$

(i) One Exabyte is equal to

- |                   |                   |
|-------------------|-------------------|
| (a) $2^{50}$ Byte | (b) $2^{60}$ Byte |
| (c) $2^{70}$ Byte | (d) $2^{80}$ Byte |

[Turn over



(ii) A Modem is a

- (a) Input device
- (b) Output device
- (c) Both input & iutput device
- (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 ?

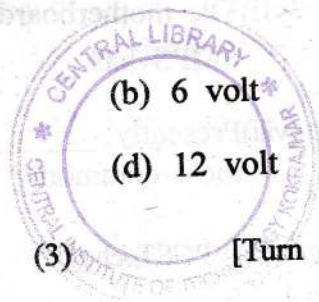
- (a) Two
- (b) Three
- (c) Four
- (d) Five

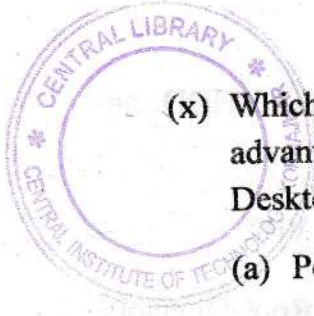
(viii) A light-sensitive device that converts the printed text, drawing, or other images into digital form is called \_\_\_\_\_.

- (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 the above

2. Fill-up the blanks : 1×8=8

(i) Basically \_\_\_\_\_ bus width determines the strength of a microprocessor.

(ii) Cache memory is implemented by \_\_\_\_\_.

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

(iv) \_\_\_\_\_ is the latest version of Microsoft's OS.

(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

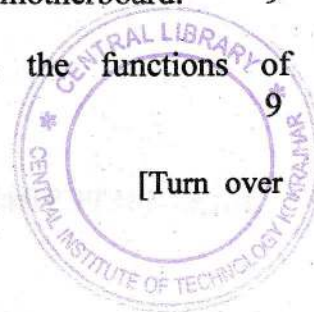
- (i) The chipset defines the architecture of a motherboard.
- (ii) MS-DOS is a 64-bit operating system.
- (iii) POST is the most basic software that runs the PC.
- (iv) A Solid-State Drive (SSD) is a magnetic type storage device.
- (v) The COM port in a PC is a type of parallel port.
- (vi) An Ink-Jet printer is a non-contact type of printer.
- (vii) The battery Ampere-hour (Ah) determines the backup time of an UPS 1.

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

101/Et-504/PCSTechgy. (5)



[Turn over

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 the different types of printer and compare the features of commonly used printers. 9
7. What are different power line disturbances? What are their remedies? Explain in brief. 9
8. Write short notes on *any two*: 4.5×2=9
  - (a) Chipset
  - (b) General Purpose I/O Ports
  - (c) File Systems
  - (d) UPS
  - (e) Laptop Computers.

