Total No. of printed pages = 7

Et-504/PCS&T/5th Sem/Et/2017/N

PC SYSTEM AND TECHNOLOGY

Full Marks - 70

Time - Three hours

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

PART – A

1. State true or false :

 $1 \times 7 = 7$

- (i) A 32-bit machine means a 32-bit address bus.
- (ii) The chipset defines the architecture of a Motherboard.
- (iii) Windows 3.11 is not an operating system.
- (iv) The VBR of a disk drive contains the partition information.
- (v) Among the different keyboard technologies rubber dome type is the most reliable one.

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- (vi) Accelerated Graphics Ports (AGP) are used for monitor interfacing.
- (vii) Laser printers are a type of impact printer.
- NO SEATEM LND FECHNOLOGY Fill up the gaps : 2. $1 \times 8 = 8$
 - LPT1 and LPT2 are **(i)** ports.
 - (ii) Cache memories are implemented by costlier RAM.
 - (iii) On present day systems only type of generic expansion slots are found.
 - (iv) A ZIF socket is used for installation of on computer motherboards.
 - (v) In MS-DOS, the command is used for disk drive formatting.
 - (vi) The BIOS-ROM that can be updated without BIOS. removing it is called
 - (vii) A DVD can hold a maximum of data.
 - (viii) The AT power supply connector on the motherboards has pins.
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3. Choose the correct answer : 1×10=10

- One Peta-Byte is equal to ? **(i)**
 - (a) 2²⁰ Byte
 - (b) 2³⁰ Byte
 - (c) 2⁴⁰ Byte
 - (d) 2⁵⁰ Byte
- A Scanner is a : (ii)

billion by

- (a) Input device
- (b) Output device
- (c) Both Input and Output device
- (d) None of these
- (iii) Which of the following is not a motherboard expansion slot ?
 - (a) ISA
 - (b) ATX

(c) EISA

(3)

(d) VESA

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(iv) An SCSI hard disk cable has the following number of pins

(a)	25	(b)	32
(c)	40	(d)	50

- (v) Which is the only file system supported by MS-DOS ?
 - (a) FAT-16 (b) FAT-32
 - (c) NTFS (d) HPFS
- (vi) Which of the following file is not required for booting DOS/Win9X ?
 - (a) IO.SYS
 - (b) MSDOS.SYS
 - (c) CONFIGSYS
 - (d) COMMAND.COM
- (vii) A standard VGA display has _____ pixels in its native graphics mode.
 - (a) 648×320 (b) 640×480
 - (c) 880×640 (d) 840×680
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(4)

(viii) The term COM port is referred to --

- (a) Serial Port
- (b) Parallel Port
- (c) Audio Ports
- (d) None of these
- (ix) Which of the following factor does not affect computer processing speed ?
 - (a) Clock Speed
 - (b) Hard Disk Capacity
 - (c) Processor Register Size
 - (d) RAM Size
- (x) Which of the following is not a feature of UPS ?
 - (a) Backup Time
 - (b) Transfer Time
 - (c) Throughput
 - (d) Surge Protection.

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(5)

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PART-B

Answer any three questions.

- 4. (a) Differentiate between the IBM personal computer family as PC, PC-XT and PC-AT with their features. 5
 - (b) List the different parts and components found on a present day PC motherboard and explain their functions in brief.
- 5. (a) What is BIOS, POST and CMOS setup ? Explain. 9
 - (b) Define I/O port Address, Memory Address, IRQ numbers and DMA channels of a PC System.
- 6. (a) Using neat diagrams explain the construction and working of a Hard Disk Drive. 10
 - (b) Bring out a comparison between popular HDD interfacings. 5
- 7. (a) Explain the functions and voltage levels of a PC-SMPS. 7
 - (b) Define Aspect Ratio, Pixels, Dot-Pitch, and Resolution of a computer monitor. 8.

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- 8. (a) Explain the working of a Keyboard used in computers. 8
 - (b) Mention and explain the general characteristics of printers. 7
- 9. Write short notes on any two : $2 \times 7\frac{1}{2} = 15$
 - (a) RAM Technologies
 - (b) USB and Firewire Ports
 - (c) Windows Registry
 - (d) Optical Storage Device
 - (e) UPS.

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(7)