Et-504/PCST/5th Sem/2014/N

PC SYSTEM TECHNOLOGY

Full Marks – 70

Pass Marks – 28

Time – Three hours

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

Answer any *five* questions.

1. (a) With the help of a block diagram, label the different parts of a Personal computer.

   (b) What are PC-AT's ? State the important features of PC-AT's with special reference to the microprocessor used.

   (c) Explain the concept of DMA and Chipsets in a PC.   4+6+4=14

2. (a) What do you understand by motherboard form factor ? Also state and explain the different types of bus system.

(b) State the important features of DRAM. How is it different from DDR ?   3+5+4+2=14

3. (a) Explain the concept of BIOS and POST.

   (b) State the important differences between DOS and WINDOWS.

   (c) What do you understand by memory management ? How is it achieved in WINDOWS ?   4+6+4=14

4. (a) What are primary and secondary memory ?

   (b) Explain the construction and operation of a hard disk. Also using the help of a neat diagram, write briefly what you understand by cylinders, sectors and tracks.

   (c) State important differences between a CD ROM and DVD.   3+9+2=14

5. (a) What is hard disk partitioning ? Why is it necessary ?

   (b) What do you understand by FAT 16 and FAT 32 ? Explain its utility in a computer system.
                                    2+4+4+4=14

6. (a) What are USB and Firewire ports ? What are their advantages ?

   (b) Explain the concept of a pointing device. Also write in your own words about the working principle of a mouse. 6+2+6=14

7. Write short notes on any *two* :   7×2=14

   (i) CD ROM

   (ii) Keyboard

   (iii) CRT display

   (iv) Printers

   (v) SMPS.