Total No. of printed pages = 3

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 neat block diagram, explain the functioning of a Personal Computer. Also state the features of different microprocessors used in PC, PC-XT and PC-AT.

   (b) What do you understand by DMA and Chip sets ? Discuss.   4+6+4=14

2. (a) What do you understand by "bus" in a computer ? Write down their salient features.

   (b) Differentiate between SRAM and EDORAM.

   (c) What is DDR ? Discuss.   6+4+4=14

[Turn over

3. (a) State the important differences between DOS and Windows.

   (b) Write what you know about Windows memory management. 7+7=14

4. (a) What do you understand by 'primary memory' and 'secondary memory' ?

   (b) Explain the construction of a hard disk and briefly describe the concept of cylinders, tracks, sectors and seek time.

   (c) How can data be recorded in a floppy disk ? 2+8+4=14

5. (a) What do you understand by partitioning of a hard disk ? How can it be achieved ?

   (b) What is FAT ? Write down the important features of FAT 16 and FAT 32. 8+2+4=14

6. (a) Discuss the different types of keyboard and their specifications.

   (b) Bring out the similarities and differences between a mouse and a track ball.

   (c) What are Video Adapters ? Discuss their utility in a computer system. 6+4+4=14

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

   (i) BIOS and POST

   (ii) CD-ROM

   (iii) USB

   (iv) CRT display.