Total number of printed pages: **Programme (Dipl.)/Semester V/DECE515A**

2022

PC System Technology

Full Marks: 100

Time: Three hours

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

*Answer **any five** questions.*

1.	a)	What are PC-XTs and PC-ATs? Mention their specifications. State the features of the different microprocessors that may be used in PC-XTs and PC-ATs.	4+6=10
	b)	Draw a neat diagram of a hard disk and label tracks, cylinders and sectors. Define seek time, latency time and access time.	6+4=10
2.	a)	Explain the construction of a hard disk drive with the help of a neat diagram.	10
	b)	What do you mean by file system of a hard disk? State the important features of FAT 16, FAT 32 and NTFS systems.	10
3.	a)	Draw and explain the various parts and working of CRT display used in PCs.	10
	b)	Define pixel, resolution, dot-pitch, color depth and refresh rate of a CRT display.	10
4.	a)	Explain the working of a keyboard used in computers. Name different types of keyboards used in PCs.	5+3=8
	b)	Discuss about various types of serial and parallel	5

		ports.	
	c)	What are the different stages of formatting of hard disk? Discuss. What do you mean by partitioning of hard disk? What is its importance?	4+3=7
5.	a)	Draw a neat diagram of PC motherboard labelling and listing the various parts. Give a brief description of each of them.	9
	b)	What do you mean by chipset? Give diagram and explain.	6
	c)	Explain the importance of BIOS and POST.	5
6.	a)	Describe the different types of memory modules used in PCs.	6
	b)	What is an operating system? Name some of them. Differentiate between DOS and Windows.	7
	c)	Explain how does a CD drive work? Name some variants of CD drive.	7
7.		Write short notes on -i) DDR and its versions, ii) EDORAM, iii) USB and Fire-wire, iv) PLCC chip carrier package.	5*4=20