

Total No. of printed pages = 3

19/5th Sem/DECE515A

2021

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) Draw a schematic diagram of a PC hard disk and explain its construction. 10
- (b) Explain with necessary diagram—track, sector, cylinder and cluster in context of a hard disk. 6
- (c) Define seek time, rotational delay and access time. 4
2. (a) Classify the different types of memory. Distinguish between SRAM and DRAM. What is memory hierarchy? 8
- (b) Define and differentiate among SIMM, DIMM and RIMM. 7

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- (c) Describe the role of cache memory. What are the different levels ? 5
3. (a) What do you mean by formatting of a hard disk ? What are the different types of formatting ? Explain. 7
- (b) What is partitioning of a hard disk ? Why is it needed ? 3
- (c) What do you mean by interface ? Describe the different types of hard disk interfaces. 10
4. (a) Draw a schematic diagram of CRT monitor. Describe its different parts. 8
- (b) Define pixel, resolution, color depth and refresh rate of a CRT monitor. 6
- (c) Explain BIOS and POST. What are their importance ? 6
5. (a) Describe briefly about the important components of a PC motherboard with the help of a neat diagram. 8
- (b) What do you mean by File Allocation Table (FAT) ? Write the important features of FAT 16 and FAT 32. 8
- (c) What is NTFS ? 4



6. (a) Write briefly about any two of the PC operating systems. 6
- (b) Describe the different types of computer keyboard. 8
- (c) Explain the construction of a CD-ROM drive. How does it work? 6
7. Write short notes on the following :
- (a) Computer bus 4
- (b) IEEE 1394 and USB ports 6
- (c) DDR memory 3
- (d) Linux operating system 3
- (e) Impact and non-impact printers. 4

