

2023

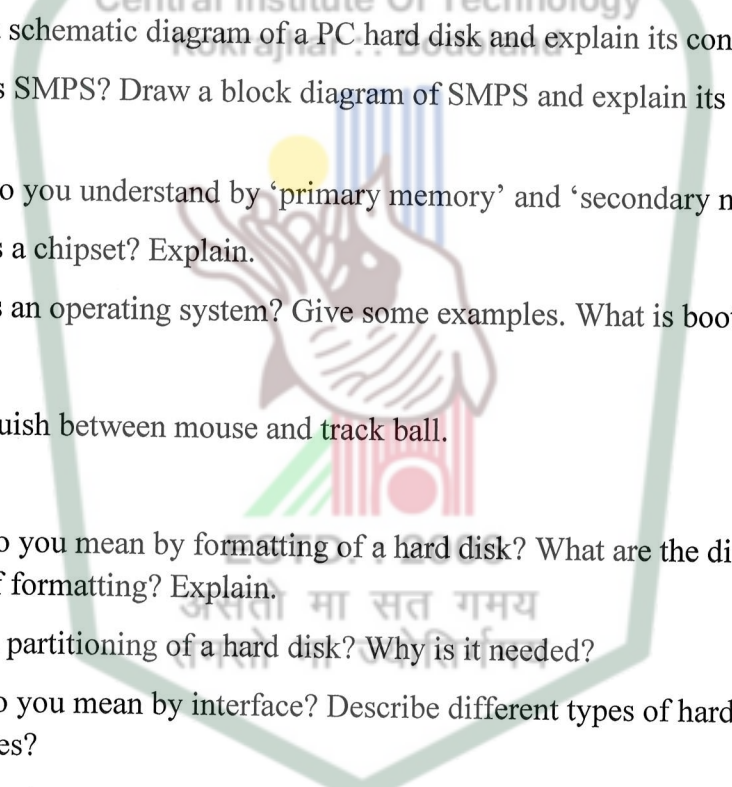
PCST

Full Marks : 100

Time : Three hours

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

*Answer any five questions.*

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1. a) Draw a schematic diagram of a PC hard disk and explain its construction. 10  
b) What is SMPS? Draw a block diagram of SMPS and explain its different parts. 6  
c) What do you understand by 'primary memory' and 'secondary memory'? 4
2. a) What is a chipset? Explain. 9  
b) What is an operating system? Give some examples. What is booting? 6  
c) Distinguish between mouse and track ball. 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? 5  
c) What do you mean by interface? Describe different types of hard disk interfaces? 8
4. a) Draw a schematic diagram of CRT monitor. Describe its different parts. 8  
b) Define the following terms- pixel, resolution, color depth, dot pitch, refresh rate and aspect ratio of a CRT monitor. 9  
c) What is NTFS? 3
5. a) Describe briefly about the important components of a PC motherboard with the help of a neat diagram. 8  
b) Explain BIOS and POST. What are their importances? 6  
c) What are video adapters and video memory. What is their utility in a 6

computer system?

6. a) Write the important differences between DOS and Windows operating system. 6
- b) Describe the different types of keyboard used in modern PCs. 7
- c) What do you mean by File Allocation Table (FAT)? Write the important features of FAT16 and FAT32? 7
7. Write short notes on the following- (5\*4=20)
- a) IEEE 1394 and USB ports
- b) SATA and SCSI
- c) PCI and AGP slot
- d) CMOS battery

