INDEX

UNIT I

Syllabus :

1.1 Computers: Desktop Computers, Tablet, Laptop, Mainframe, Supercomputer.

1.2 Features description: Hardware components of Desktop Systems, Laptops, and Tablets.

1.3 Types of Servers, Server Feature descriptions and its applications

UNIT II

Syllabus :

2.1 Motherboard: Components, Layout, Connections

2.2 Motherboards: Types and Features

2.3 Enhancing features of motherboard: Adding and or replacing components

2.4 Troubleshooting problems of a motherboard.

UNIT III

Chapter 3 : Processor and BIOS 3-1 to 3-12

Syllabus :

3.1 Processor: Common Features, Types of Processors, Basic Structure of CPU, Different levels of cache, System bus, Clock speed, Packaging.

3.2 Multiple Core Processors: Description, Two core processor architecture and multi-core processor architecture.

3.3 Co-processors: Graphics, Math

3.4 BIOS: Basic Input Output System Services, Bios Interaction, date and time, Boot device priority, boot setting configuration, password security.

UNIT IV

Chapter 4 : Hard Disk Drive 4-1 to 4-29

Syllabus :

4.1 Hard Disk Drive

4.2 Hard Disk Interfaces: EIDE, Serial ATA,SCSI, USB and IEEE 1394 (Firewire), RAID, Solid State Drive (laptop)

4.3 Disk structure : Heads, Tracks, Sectors, Cylinders, Cluster, Landing zone, MBR, Zone bit recording

4.4 Disk performance parameters Characteristics: Seeks and Latency, Data Transfer Rate

4.5 File system: FAT16, FAT32, NTFS, Unix file system, EXT2/EXT3, RAID

UNIT V

Syllabus :

5.1 Troubleshoot I/O devices : Keyboard, Switches, Mouse, Scanners, Webcam, Monitors, Printers, Speaker and Mike, LCD Projector

5.2 I/O Cables : Specification of I/O Cables, Types of I/O cables, Types of I/O Ports, Internal and External modem, Block diagram and specifications.

5.3 Network Interface : Definition of network interface, Types of network interface, troubleshooting of network connectivity, Antivirus

UNIT VI

Syllabus :

6.1 Purpose and Features of SMPS, Working of SMPS

6.2 Fault finding in power supply

6.3 Uninterrupted Power Supply: Characteristics of UPS, Types of UPS, features of the specified type online and offline

6.4 Preventive Maintenance of Power Supply

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