

Midterm Exam Study Guide: ISAT 121

Form Factors – Hard Drives

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Numbering systems, conversions, and character lookups

PC components

Different Case/Motherboard/Power Supply form factors

What is “Energy Star”?

Criteria for selecting a Case/Motherboard/Power Supply

Differences between Volt/Amp/Ohm/Watt and what each is supposed to measure

AC vs. DC

Properties of Conductors/Insulators/Semiconductors

How to avoid ESD & EMI

Dangers to the power supply, motherboard, and other computer components

Tools needed to perform PC repair and maintenance

Purpose(s) of preventative maintenance

Primary features of a preventative maintenance program

What is POST?

Steps to solving a PC problem

Most important components of a motherboard system

Bus bandwidth vs. frequency

Calculating the processor speed

Differences between the different types of buses

Motherboard configuration options

Different keystrokes to enter the CMOS/BIOS configuration

Different types of memory

Different package configurations for RAM

Key criteria for comparing RAM

Different RAM specifications

Hard drive components

Platter/Track/Sector/Cylinder

Different hard drive interfaces

Different ATA standards

Configuring an IDE/EIDE/SCSI drive