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DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – DECEMBER 2024

Semester: IV 055 CS 44 PC HARDWARE AND TROUBLE SHOOTING

Time: 3:00 Hours

Max. Marks: 100

Answer any FIVE Questions (5 x 20 = 100 Marks)

1. a) Explore CPU Overclocking in computer organization. (10 Marks)
b) Explore Cache Memory in computer systems. What is cache memory? (10 Marks)
2. a) Explain the concept of Peripheral Devices in the context of computer systems. Provide examples of common peripheral devices. (10 Marks)
b) Explain the overview of the Hard Disk Controller in computer systems. (10 Marks)
3. a) Explore the Expansion Bus in motherboard design. Describe common expansion bus standards and interfaces. (10 Marks)
b) Explain the concept of Wait State Logic in motherboard design. What are wait states, and why are they introduced? (10 Marks)
4. a) Provide an overview of printer types and printing mechanisms. What are the common types of printers, and how do they work? (10 Marks)
b) Discuss troubleshooting techniques for printers. What are common printer issues, and how can users diagnose and resolve them? (10 Marks)
5. a) Discuss troubleshooting related to CMOS (Complementary Metal-Oxide-Semiconductor) setup. (10 Marks)
b) What are common problems associated with CMOS setup, and how can users troubleshoot and configure CMOS settings to resolve issues? (10 Marks)
6. a) Examine about Computer Structure. Explain its unit by giving examples? (10 Marks)

Discuss the Memory Hierarchy in computer organization. What is the memory hierarchy?(**10**

b) **Marks)**

7. a) Discuss the controller post description for Hard Disk Controller. (**10 Marks)**

b) Discuss the Keyboard Interface in the context of peripherals and controllers. (**10 Marks)**