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DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – JUNE 2023

Semester: I 252/551/552 CS13/351 HE 21 FUNDAMENTALS OF COMPUTER

Time: 3:00 Hours

Max. Marks: 100

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

1. a) Define a Computer. (5 Marks)
b) What is computer literacy? Explain it. (7 Marks)
c) State the economic advantages of using computers. (8 Marks)
2. a) Explain the functions of the Control Unit. (10 Marks)
b) Discuss the computer memory and explain it. (10 Marks)
3. a) Explain the usefulness of control structures. (10 Marks)
b) Explain about flowcharts. (10 Marks)
4. a) Differentiate non-pre-emptive and pre-emptive scheduling. (10 Marks)
b) Explain the protection and security mechanisms in a computer system. (10 Marks)
5. a) Explain the windows firewall. (10 Marks)
b) Discuss the main functions of the Internet? (10 Marks)
6. a) Why does a computer need a cache memory? Explain it. (10 Marks)
b) Explain the CPU instruction cycle. (10 Marks)
7. a) Write notes about the operating system. (10 Marks)
b) State the process management activities handled by the operating system. (10 Marks)