

QP CODE 2090559101

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DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – JUNE 2023

Semester: IX

055CS91 DATA COMMUNICATION

Time: 3:00 Hours

Max. Marks: 100

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

1. a) Discuss about serial and parallel data Transmission. (10 Marks)
b) Explain briefly about lossless data compression Techniques. (10 Marks)
2. a) Describe about Time Division Multiplexing and its types. (10 Marks)
b) Explain about Packet switching and its approaches. (10 Marks)
3. a) Differentiate between Bus Topology and Star Topology. (10 Marks)
b) Explain briefly about block semantics modem and null modem. (10 Marks)
4. a) Describe about transmission media, its factor and Causes of Transmission Impairment (10 Marks)
b) Discuss about a Satellite Microwave Communication. (10 Marks)
5. a) Discuss briefly about methods of error control and its ways. (10 Marks)
b) Explain briefly about Cyclic Redundancy Check (CRC). (10 Marks)
6. a) Discuss about Digital to Analog Signal Conversion. (10 Marks)
b) Explain about analog to analog signal conversion techniques. (10 Marks)
7. a) Describe about Network Topology and its types briefly. (10 Marks)
b) Discuss about physical Layer interface and standards. (10 Marks)