

QP CODE 2053515101

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DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – JUNE 2023

Semester: V 351CS51 DATA COMMUNICATION AND NETWORKING

Time: 3:00 Hours

Max. Marks: 100

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

1. a) Explain about different types of line configuration in computer Networks. **(5 Marks)**
b) Explain Methods of Data Representation in Data Communication. **(5 Marks)**
c) Discuss briefly about data flow in data communication. **(10 Marks)**
2. a) Discuss the functions of Transport Layer. And explain its protocol. **(10 Marks)**
b) Explain briefly about periodic analog signals. **(10 Marks)**
3. a) Explain Analog to Digital Signal Conversion. **(10 Marks)**
b) Describe Data Communications equipment interface. **(10 Marks)**
4. a) Describe about modem and its blocks briefly. **(10 Marks)**
b) Discuss briefly about guided transmission medium. **(10 Marks)**
5. a) Discuss Multiplexing concept one-to-many and many-to-one. **(10 Marks)**
b) Explain briefly about types of errors in data link layer. **(10 Marks)**
6. a) Explain Analog to analog signal conversion and its ways. **(10 Marks)**
b) Discuss about Polar Encoding techniques. **(10 Marks)**
7. a) Explain briefly about Time Division Multiplexing and its types. **(10 Marks)**
b) Describe about Error Correction Techniques. **(10 Marks)**