

QP CODE 2073517101

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# DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – JUNE 2024

Semester: VII

351 CS 71 MOBILE COMPUTING

Time: 3:00 Hours

Max. Marks: 100

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

1. a) Explain in detail about wireless communication with its advantages and disadvantages. (10 Marks)  
b) Explain electromagnetic waves (EM waves) comprehensively, covering their properties, behavior, and applications. (10 Marks)
2. a) Describe in detail about the different access methods. (10 Marks)  
b) Compare and contrast FDMA, SDMA and TDMA. (10 Marks)
3. a) Describe in details about GSM. Draw a neat diagram for the working principal for the GSM Network. (10 Marks)  
b) Describe in details about the components of the GSM architecture. (10 Marks)
4. a) Describe in detail about DVB. (10 Marks)  
b) Describe in details about the basics transmission technologies with its pros and cons. (10 Marks)
5. a) Discuss in detail about Mobile IP and architecture of Mobile IP Technology. (10 Marks)  
b) How DHCP works? Write down the components of DHCP. (10 Marks)
6. a) Elaborate in detail about antenna with its Principal Characteristics. (10 Marks)  
b) Describe in details about multiplexing and its various types. (10 Marks)
7. a) Describe in detail TETRA with its benefits. (10 Marks)  
b) Describe in detail about satellite. Explain in detail about the characteristics, applications and types of satellite. (10 Marks)