

QP CODE 2073517101

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# DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – JUNE 2023

Semester: VII

351CS71 MOBILE COMPUTING

Time: 3:00 Hours

Max. Marks: 100

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

1. a) Elaborate multiplexing and its types. (12 Marks)  
b) Elaborate on signal propagation. (8 Marks)
2. a) Describe SDMA. (4 Marks)  
b) Briefly explain the concept of switching. (4 Marks)  
c) Analyze the limitations of switching. (6 Marks)  
d) Elaborate on CDMA. (6 Marks)
3. a) Elaborate the difference between Contrast UMTS AND IMT-2000. (10 Marks)  
b) Explain the basic working principle of satellite systems. (10 Marks)
4. a) Write detailed notes on the IEEE 802.11. (10 Marks)  
b) Discuss the advantages of telecommunication. (10 Marks)
5. a) Elaborate on mobile IP. (10 Marks)  
b) Explain in detail traditional TCP. (10 Marks)
6. a) Explain the need for mobile computing. (4 Marks)  
b) Explain the wireless transmission. (4 Marks)  
c) Explain the advantages of mobile computing. (12 Marks)
7. a) Explain the advantages of frequency division multiplexing and its application as well as limitations. (12 Marks)  
b) Explain the concept of infrared. (8 Marks)