

MANICALAND STATE UNIVERSITY OF APPLIED SCIENCES

FACULTY OF ENGINEERING, APPLIED SCIENCES AND TECHNOLOGY

DEPARTMENT: COMPUTER SCIENCE AND INFORMATION SYSTEMS

MODULE: MOBILE COMPUTING

CODE: INSY422

SESSIONAL EXAMINATIONS
OCTOBER-2023

DURATION: 3 HOURS

EXAMINER: MR T.S MUWANI

INSTRUCTIONS

- 1. Answer Any five (5) questions.
- 2. Start a new question on a fresh page.
- 3. Total marks 100.

Additional material(s): None

Question 1

Describe the following terms in detail:

a) Corresponding Node [5 marks]

b) Care of Address [5 marks]

c) Agent Discovery [5 marks]

d) Tunneling and Encapsulation [5 marks]

Question 2

a) Demonstrate the workings of mobile IP with the help of a diagram.

[10 marks]

b) Discriminate in detail about traditional IP and how it differs from mobile IP.

[10 marks]

Question 3

a) Express a brief account of route optimization in mobile IP. [10 marks]

b) What do you mean by agent solicitation? [5 marks]

c) Point out the meaning of 'Slow Start' in mobile computing. [5 marks]

Question 4

Explain the layered architecture of the TCP/IP protocol suite and compare it with the ISO/OSI architecture. [20 marks]

Question 5

Modify the normal TCP to M-TCP for working efficiently in a wireless mobile network. [20 marks]

Question 6	
Formulate a plan to create a mobile IP along with the basic require	ments.
	[20 marks]
Question 7	
Assess why congestion occurs in a network.	[20 marks]
END OF EXAMINATION	

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