

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
APRIL-2024

DURATION: 3 HOURS

EXAMINER: MR T.S MUWANI

INSTRUCTIONS

- 1. Answer Any five (5) questions.
- 2. Each question carries 20 marks
- 3. Start a new question on a fresh page.
- 4. Total marks 100.
- 5. Additional material(s): None

Question 1

- a) Distinguish between infrastructure-based networks and infrastructure-less networks. [10 marks]
- b) Describe the function of presentation, application, and data tiers in a mobile environment. [10 marks]

Question 2

Examine hidden terminal and exposed terminal problems with the help of a diagram. [20 marks]

Question 3

Critic a role that is played by radio and infrared signals in mobile computing.

[20 marks]

Question 4

Assess why the MAC protocol designed for infrastructure-based wireless networks may not work satisfactorily in an infrastructure-less environment. Justify your answer. [20 marks]

Question 5

Explain about mobile computing. Classify its various applications in a real-world scenario. [20 marks]

Question 6

Examine an application where mobile payment may be useful and explain the different payment systems that are available. [20 marks]

Question 7

Illustrate the basic concepts of ad-hoc.

[20 marks]

END OF EXAMINATION

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