



**ZIMBABWE EZEKIEL GUTI UNIVERSITY**

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**FACULTY OF HEALTH, SCIENCE AND TECHNOLOGY**

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**DEPARTMENT OF DIGITAL TECHNOLOGY**

**EXAMINATION PAPER**

**COURSE CODE** : CDT 410  
**COURSE TITLE** : Mobile Computing  
**SPECIAL REQUIREMENTS** : None  
**DURATION** : 3 Hours  
**LEVEL** : 4.2  
**DATE** : November 2022

28 NOV 2022

**INSTRUCTIONS TO CANDIDATES:**

1. This paper consists of 2 sections
2. Answer **four** Questions only.
3. Start each Question on a new page

**There are 3 printed pages for this question paper**

### QUESTION 1

- a) Explain your understanding of Mobile Computing [1 mark]
- b) Identify and briefly explain the two different kinds of mobility [4 marks]
- c) List any FIVE characteristics of Mobile Computing [5 marks]
- d) Briefly explain any FIVE applications of Mobile Computing in your community

[10 marks]

### QUESTION 2

Illustrate and clearly describe the Hidden and Exposed terminal problem [20 marks]

### QUESTION 3

- a) Draw a neat diagram of WAP architecture and explain in detail. [10 marks]
- b) Explain how mobile TCP improves the TCP performance in wireless and mobile environment. [10 marks]

### QUESTION 4

- a) What is the basic purpose of DHCP? Name the entities of DHCP. [10 marks]
- b) Explain standard routing protocols for mobile communication. [10 marks]

### QUESTION 5

Clearly explain the following terms as associated with mobile IP:

- a) Home network
- b) Foreign Agent
- c) Foreign Address (FA)
- d) Correspondent Node (CN)
- e) Care-of-Address (COA) [5 x 4 marks]

\*\*\* Wish you all the best \*\*\*

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