



TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

CICM

EIT 1105: COMPUTER NETWORKS

SPECIAL/ SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Sep 2018

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question ONE

- a) Explain two types of Ethernet cables [4marks]
- b) State the use of the following cabling tools [4marks]
 - i. Crimping tool
 - ii. UTP cable stripper
 - iii. Punch down tool
 - iv. Cable cutter
- c) Explain three disadvantages of client server networking model [6marks]
- d) Explain the following topologies 6marks
 - i. Star topology
 - ii. Bus topology
 - iii. Ring topology

Question TWO

- a) Define computer network [1mark]
- b) State two advantages of wired network to wireless network [4marks]
- c) Explain the basic procedures when troubleshooting a network [5marks]
- d) Briefly explain the function of the following devices in computer networks [10 marks]
 - i. Switch

- ii. Hub
- iii. Repeater
- iv. Gateway
- v. Bridge

Question THREE

- a) Explain the procedure and the tool used in every step to terminate a Ethernet cable [10 marks]
- b) State two advantages of peer to peer networking model [4marks]
- c) State the functions of the following DOS commands [6marks]
 - i. PING
 - ii. IPCONFIG
 - iii. TRACERT

Question FOUR

- a) Explain the difference between a bridge and repeater in computer networks[4marks]
- b) State the role of network operating system in computer networks 2marks
- c) State the function of the following cables [4marks]
 - i. Straight through cable
 - ii. Crossover cable
- a) Explain the following types of networks [6marks]
 - i. Local area network
 - ii. Wide area network
 - iii. Metropolitan area network
- b) Explain two reasons why wired network may be preferred to wireless network [4marks]

Question FIVE

- a) Explain three advantages and three disadvantages of bus topology [6marks]
- b) Explain the procedure and the tool used in every step to terminate a twisted cable [10 marks]
- c) State two software's used in computer networks [2marks]
- d) Define the term bandwidth [2marks]