



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY
DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DIT & DICT) DICT 2K 9J, DICT 9M

EIT 2301: NETWORKING

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B

Maximum marks for each part of a question are clearly shown.

This paper consists of **THREE** printed pages

SECTION A – Compulsory

Question 1

- a) Describe any **FOUR** advantages of using computer networks **[8 Marks]**
- b) Describe the following components of networks:
- i. Hosts
 - ii. Shared peripherals
 - iii. Networking devices
 - iv. Networking media **[8 Marks]**
- c) Describe the **THREE** types of networks based on size **[6 marks]**
- d) List any **FOUR** transmission media **[4 Marks]**
- e) Explain any **TWO** advantages and any two disadvantages of peer-to-peer networking **[8 Marks]**
- f) Explain the following terms
- i) Logical topology
 - ii) Broadband Transmission **[4 Marks]**

SECTION B (ANSWER ANY TWO QUESTIONS)

Question 2

- a) With aid of diagrams describe any three network topologies **[12 Marks]**
- b) Explain the following:
- i) Transmission media
 - ii) Bandwidth
 - iii) MAC addresses
 - iv) Protocol **[8 Marks]**

Question 3

- a) Explain the following terms:
- i) Signal attenuation
 - ii) Signal Interference
 - iii) Client
 - iv) Server
 - v) Physical Address **[10 Marks]**
- b) Describe the type of cable you would use to connect:
- i) A PC directly to another PC
 - ii) A PC to another PC through a switch **[10 Marks]**

Question 4

a) Explain the following terms:

- i) Active Directory
- ii) Security Accounts Manager (SAM)
- iii) Domain
- iv) Subnet Mask

[8 Marks]

b) Explain how you would share a folder

[4 Marks]

c) Explain the permissions that can be set on a shared folder

[6 Marks]

d) State any **TWO** logical topologies

[2 Marks]

Question 5

a) Describe any **FOUR** password options

[8 Marks]

b) Describe any **FOUR** rights (privileges) that can be assigned to a user

[8 Marks]

c) List any for password policies

[4 Marks]