

**TECHNICAL UNIVERSITY OF MOMBASA**

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INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION  
TECHNOLOGY

**UNIVERSITY EXAMINATION FOR:**

DICT

EIT 2207: NETWORK DESIGN & IMPLEMENTATION (PAPER1)

END OF SEMESTER EXAMINATION

**SERIES:** Select series 2016

**TIME:** 2 HOURS

**DATE:** Pick Date Select Month Pick Year

**Instructions to Candidates**

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of Choose No questions. Attempt Choose instruction.

**Do not write on the question paper.**

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**Question ONE (compulsory)**

- a) Define the term Network design and implementation (4mks)
- b) State 4 characteristics of Client Server (4mks)
- c) Explain the difference between
  - i) “physical topology and logical topology
  - ii) Hub and switch
  - iii) Star and Ring topology (12mks)

**Question TWO**

- a) Draw and explain the network design and implantation cycle (20mks)

### **Question THREE**

- a) Name any 4 Network Operating System (4mks)
- b) Explain the following terminologies
  - i) Workgroups
  - ii) Domains
  - iii) User Accounts (6mks)
- c) Define the following network protocol explaining their functions
  - i) HTTP
  - ii) FTP
  - iii) POP
  - iv) DHCP . (10mks)

### **Question FOUR**

- a) How would you install, configure and give rights to a network printer (10mks)
- b) Write the procedure for creating a domain user account (10mks)

### **Question FIVE**

- a) Define the roles of the following servers
  - i) File server-
  - ii) Web server(intranet)
  - iii) Mail server (9mks)
- b) What is the function of Task Manager show what is running at the CPU level (1mk)
- c) Describe 5 roles Network administrator (5mks) give any role he performs
- d) State 5 advantages of Client-server computing (5mks)