



MUEO

MOI UNIVERSITY

**OFFICE OF THE DEPUTY VICE CHANCELLOR, ACADEMIC
AFFAIRS, RESEARCH & EXTENSION
UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
FOR THE DEGREE OF
BACHELOR OF CIVIL AVIATION MANAGEMENT**

EXAM CODE: BCM 412

COURSE TITLE: AIRPORT TRAFFIC MANAGEMENT

DATE: 19TH DECEMBER 2023

TIME: 9.00PM-12.00PM

INSTRUCTION TO CANDIDATES

➤ SEE INSIDE.

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PLEASE TURN OVER

BCM 412 - AIR TRAFFIC MANAGEMENT

INSTRUCTIONS: ANSWER QUESTION ONE ANY OTHER THREE QUESTIONS

QUESTION ONE:

- i. Define the term Air Traffic Management and trace its development to the modern-day aviation.

(15 Marks)

- ii. Aircraft recognition is about being able to distinguish between different aircraft. Describe any five accepted Aircraft features that aid in Aircraft recognition
(10 Marks)

QUESTION TWO:

- i. Explain the following airspace giving one example in Kenya. (6 Marks)
 - a. Danger area.
 - b. Prohibited area.
 - c. Free route airspace.

- ii. Explain the concept of Reduced Vertical separation minima used on enhancing airspace utilization. (3Mks)

- iii. State and briefly explain three main components of Air Traffic Management. (6 Marks)

QUESTION THREE:

- i. Describe the effects of loss of aircraft separation. (5 Marks).
- ii. Outline the limitations of current Air Traffic Management system.

(10 Marks).

QUESTION FOUR:

- i. Examine any five weather elements in aviation

(5 Marks).

- ii. Identify and discuss the legal and non-legal duties of air traffic controllers (10 Marks)

QUESTION FIVE:

- i. Using a specific diagram illustrate the traffic pattern in any typical airport

(15 Marks)

QUESTION SIX:

- ii. Overloading an aircraft can create a variety of problems. Discuss. (5Mks).
- iii. The concept of Air Traffic Flow Management is a service established with the objective of contributing to a safe, orderly and expeditious flow of Air Traffic. Elaborate on any specific objectives of Air Traffic Flow Management. (10 Mks)