



MUEO

**MOI UNIVERSITY**

**OFFICE OF THE DEPUTY VICE CHANCELLOR, ACADEMIC  
AFFAIRS, RESEARCH & EXTENSION**

**UNIVERSITY EXAMINATIONS  
2013/2014 ACADEMIC YEAR**

**END OF SEMESTER III EXAMINATIONS**

**FOR THE DEGREE OF  
MASTER OF BUSINESS ADMINISTRATION**

**EXAM CODE:- MBA 838**

**COURSE TITLE:- AVIATION SAFETY & SECURITY**

**DATE:- 7<sup>TH</sup> AUGUST, 2014**

**TIME:- 9.00A.M. - 12.00 NOON.**

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**INSTRUCTION TO CANDIDATES**

➤ **SEE INSIDE.**

**THIS PAPER CONSISTS OF (2) PRINTED PAGES**

**PLEASE TURN OVER**

MOI UNIVERSITY AND THE EAST AFRICAN SCHOOL OF AVIATION  
EXECUTIVE MBA (AVIATION) PROGRAMME

THIRD SEMESTER – 2013/2014 ACADEMIC YEAR

**MBA 838: AVIATION SAFETY AND SECURITY – FINAL SEMESTER EXAMINATION**

DATE:

Time:

**Instructions to the candidates**

Answer all the questions from section A and any two questions from section B.

Use separate answer sheets for each section.

All the questions carry equal marks.

**Question one**

**Section A**

- a) Human error management is a concept that is taken very seriously in commercial aviation safety matters. Discuss this concept clearly differentiating errors from violations.  
(10 Marks)
- b) You have just joined Ngonga International Airline services, a passenger commercial airline whose operational base is JKIA, as director in charge of air safety and found out that all its safety issues are handled in a reactive manner. Discuss how you will turn this system in to a proactive one.  
(15 marks)

**Question two**

- a) To negotiate with terrorists is often a task senior managers in civil aviation operations need to be prepared to undertake. Discuss how you will undertake this exercise in the event you are tasked with it.  
(12 marks)
- b) The main objective of a passenger screening system (PSS) is 'to deny a person likely to interfere with the normal operations' entry in to an aircraft/airport facilities. Discuss the fundamental requirements of a PSS.  
(13 marks)

## Section B

### Question Three

- a) Over the years civil aviation has experienced a number of terrorist's activities with the terrorists being more daring with each new case than the previous. Outline the lessons learned from these cases, illustrating your answer with specific examples. (13 marks)
- b) Among the emerging threats in commercial civil aviation is human trafficking and improvised explosive devises (IED). Briefly discuss each of these threats. (12 marks)

### Question Four

- a) Drug trafficking is an illegal flourishing business in civil aviation currently. Discuss how this menace can be dealt with so as to minimize its unwanted effects. (10 marks)
- b) KCAA periodically audits airline operators to ensure that civil aviation operations are safe and secure among other things. Discuss how you would go about overhauling an airline's security system that has been 'condemned by KCAA' following such an audit. (15 marks)

### Question Five

- a) A safety policy is an essential aspect of an SMS process. Define what a safety policy is and state its typical objectives. (10 marks)
- b) While hazards in aviation operations cannot be avoided entirely their consequences need to be mitigated for successful operations. Discuss how you will identify the consequences of hazards and how you will undertake the required mitigations. Illustrate you answer with typical examples. (15 marks)

### Question Six

- a) Human factors play a crucial role in aviation safety. Discuss the critical issues of human factors in aviation. (10 marks)
- b) Safety risk management is an essential element of air safety. Discuss how a comprehensive safety risk management is undertaken in a commercial civil airline operator. Illustrate your answer with typical examples. (15 marks)

**Best of luck**