



MUEO

# **MOI UNIVERSITY**

OFFICE OF THE DEPUTY VICE CHANCELLOR  
(ACADEMICS, RESEARCH & EXTENSION)

## **UNIVERSITY EXAMINATIONS**

### **2018/2019 ACADEMIC YEAR**

#### **THIRD YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DEGREE OF**

**BACHELOR OF SCIENCE**

**IN**

**CIVIL AVIATION MANAGEMENT**

**COURSE CODE:** BCM 325

**COURSE TITLE:** AVIATION SAFETY & SECURITY

**DATE:** 10<sup>TH</sup> DECEMBER, 2018 **TIME:** 9.00 A.M. – 12.00 NOON

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### **INSTRUCTION TO CANDIDATES**

- ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS

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## BCM 325 AVIATION SAFETY AND SECURITY

### QUESTION 1

- a) In the last Regulator SMS audit at your organization, SMS implementation was identified as one key area that needed improvement. You have been appointed by your Managing Director as the safety manager in charge of the SMS implementation. **(15 marks)**
- i. Identify 4 (four) building blocks of a mature SMS implementation process **(1.5Marks) each**
  - ii. Describe each process **(2marks each)**
  - iii. Give examples for each **(1.5marks each)**

Award 1 (one) mark for correct arrangement in the order (*Safety Policy, Safety Risk Management, Safety Assurance, Safety Promotion*)

- b)
- (i) List and give examples of the 4 (four) generic hazard classification systems **(4marks)**
  - (ii) List and describe 3 (three) methodologies for identifying safety hazards within an organization. (2 marks for each: **(6 marks)**)

### QUESTION 2

List and explain three generic risk mitigation strategies and explain on how each approach should be examined.

(Listing the 3 strategies - 2marks each; Explaining each strategy -2 marks each; Explaining any 3 examination perspectives – 1 mark each: **(15marks)**)

### QUESTION 3

- (i) Healthy safety culture involves an informed culture where behavior, risk perception and attitudes are taken into consideration. List and describe the 4 (four) components of a healthy safety culture **(8marks)**

Listing the 4 components -1 Mark each

Describing the 4 components – 1 Mark each

- (ii) There are 2 (two) main drivers of safety culture within an organization. Name and describe the 2 (two) drivers. **(4marks)**
- (iii) Name 2 (two) processes involved in enhancing safety culture (1 and ½ marks for each: **(3marks)**)

#### QUESTION 4

(a) There are 4 (four) key elements involved in safeguarding the confidentiality, integrity and availability of aviation security within an organization. Assume you are the Airport Security Manager of X Company and have been tasked to List and describe 4 (four) such key elements.

(8 marks)

(b) An integrated aviation security system involves 4 subsets namely?

(4marks)

(c) Describe any 3 (three) purposes of a security manual within an organization

(3marks)

#### QUESTION 5

Describe 5 (five) objectives of the National Civil Aviation Security Program (NCASP) (3 Marks each: **TOTAL MARKS 15**)

