

## **EAST AFRICAN SCHOOL OF AVIATION**

## DIPLOMA IN AERONAUTICAL ENGINEERING

## AIRFIELD AND SAFETY II AND RESEARCH METHODS

Stream: MOD 2 TERM 1 (A&E)

DATE: 06/04/2017 TIME: 2.00 PM - 5.00 PM.

## **INSTRUCTIONS TO CANDIDATES**

- This paper consists TWO sections: A and B.
   Answer ALL questions

# **SECTION A: AIRFIELD SAFETY AND PROCEDURES**

Q. 1. a) Explain how flight safety can be enhanced under the following	headings:
i) Fire safety,	
ii) Safety around Aero planes,	
iii) Safety around Helicopters,	
iv) Foreign object damage.	(8marks)
b) Define Aircraft accident according to Civil Aviation Act Chapter 394	of the laws of Kenya. (3marks)
c) Outline SIX ground tasks to be performed on passenger aircraft on	each of the following:
(i) Arrival,	
(ii) Departures .	(9marks)
Q. 2. You have witnesses an Aircraft crash landing. Explain the procedu	re of reporting the occurrence. (20marks)
Q 3. a) Describe two methods of providing electrical power to the Airc	raft while on ground. (4marks)
b) Explain how the following tasks enhance flight safety.	
i) Careful work,	
ii) Accurate documentation,	
iii) Observation.	(6marks)
SECTION B: RESEARCH METHODS	
Q.4. Define the term research design.	(6 marks)
Q.5. Differentiate between action and experimental research.	(8 marks)
Q.6. Explain the purpose of literature review.	(6 marks)
Q.7. Explain three sources of secondary data.	(15 marks)
<b>Q.8</b> . Explain the various elements of a research proposal. Page $2$ of $2$	(15 marks)