



EAST AFRICAN SCHOOL OF AVIATION

ATC COURSE No. 71

FINAL

SUBJECT: AVIATION METEOROLOGY

STREAM: AERODROME CONTROL COURSE No. 71

Duration: 2 Hrs

DATE: 27/09/2016

TIME 8.20 – 10.20 AM

INSTRUCTION TO CANDIDATES

1. This paper consists of **TWO (2)** Pages
2. Attempt all questions
3. Read and understand all questions before attempting

1.
 - a. Describe the altimeter setting procedures as applied to flight. **(3 Marks)**
 - b. Name 5 (five) effects of altimeter setting errors? **(10 Marks)**
 - c. Discuss 3 (three) effects of altitude on flight. **(6 Marks)**
2.
 - a. List down 4 (four) effects of turbulence to an aircraft. **(8 Marks)**
 - b. Name the 3 (three) conditions favourable for thunderstorm formation. **(6 Marks)**
 - c. Name 5 (five) effects of thunderstorms to flight operations. **(10 Marks)**
3.
 - a. List down the 3 (three) methods of assessing Runway Visual range. **(6 Marks)**
 - b. How are RVR values less than 50metres and more than 1500m coded? **(6 Marks)**
 - c. List down any 6 (six) causes of reduced visibility. **(6 Marks)**
4.
 - a. What are the 4 (four) conditions favourable for the formation of radiation fog. **(7 Marks)**
 - b. Name the 5 (five) types of fog you know. **(5 Marks)**
 - c. List 6 (six) operational problems associated with icing? **(12 Marks)**
5.
 - a. When is the term CAVOK used in a METAR? **(3 Marks)**
 - b. Describe the criteria (1-3-5 rule) used in reporting of clouds in a METAR. **(4 Marks)**
 - c. Examine the following METAR;

METAR HCMM 180400Z 22006KT 2000 FG OVC006 12/12 Q1024

 - i. What is the prevailing visibility? **(2 Marks)**
 - ii. What is the weather parameter affecting visibility? **(2 Marks)**
 - iii. What time was the METAR issued? **(2 Marks)**
 - iv. What is the cloud base? **(2 Marks)**