



**EAST AFRICAN SCHOOL OF AVIATION**

**CAT**

**SUBJECT: AVIATION METEOROLOGY**

**STREAM: ATC 71 - ICAO CODE: 053**

**DURATION 2 hrs**

**DATE: 31<sup>st</sup> AUG 2016**

**Time:8.20-10.20 AM**

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**INSTRUCTION TO CANDIDATES**

1. *This paper consists of **TWO (2)** pages*
2. Attempt all questions
3. Read and understand all questions before attempting.
4. Show all your workings and calculations. Marks awarded for calculations

- 1.**
  - a. Define the atmosphere. **(2 Marks)**
  - b. What is the composition of the atmosphere in terms of the gases? **(6 Marks)**
  - c. List the four layers of the atmosphere **(8 Marks)**
  
- 2.**
  - a. Name the three pressure datums (Q-codes) used in aviation. **(3 Marks)**
  - b. What is the transition level? **(2 Marks)**
  - c. Name 5 (five) effects of altimeter setting errors. **(10 Marks)**
  
- 3.**
  - a. What are the lower and upper limits of Runway Visual Range (RVR)? **(4 Marks)**
  - b. Name three methods of assessing Runway Visual Range (RVR). **(6 Marks)**
  - c. List down any 5 (five) causes of reduced visibility. **(10 Marks)**
  
- 4.**
  - a. Name the three conditions favourable for formation of radiation fog? **(6 Marks)**
  - b. List any 5 (five) forms of precipitation. **(10 Marks)**
  - c. Name any 3 (three) effects of thunderstorms to flight operations. **(3 Marks)**