

## **EAST AFRICAN SCHOOL OF AVIATION**

## **ATC COURSE No. 73**

### FINAL

# **SUBJECT: AERODROMES AND GROUND AIDS**

STREAM: ATC COURSE No. 73

Duration: 2 Hrs

DATE: 07/04/2017 TIME 8.15 – 10.15 AM

# **INSTRUCTION TO CANDIDATES**

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

Q1. De	rfine the following terms:	
a.	Manoeuvring area	
b.	Stopway	
C.	TODA	
d.	Threshold	
e.	Aircraft classification number (ACN)	(10 Marks)
Q2. De	escribe the following runway markings	
a.	Threshold markings	
b.	Runway holding position markings	
c.	Aiming point markings	
d.	Runway centerline markings	
	Runway designator markings	(10 Marks)
	)	,
Q3 List	t three obstacle limitation surfaces	(3 Marks)
are:	inscription on a background. Three examples of these instr	(5 Marks)
Q5.	a. List 5 elements of aerodrome data published in the AIP	(5 Marks)
ςσ.	b. Decode the following data found in the AIP:  PCN35/R/B/X/U	(2 Marks)
Q6.	a. List the contents of an emergency plan document.	(5 Marks)
QU.	b. List 5 agencies expected to respond to an emergency at an aerodrome.	•
	c. List the 4 categories of expected emergencies at an aerodrome	(4 Marks)
	d. What is the responsibility of the emergency operational center?	(1 mark)
Q7.	a. List the 5 runway lights and their colors.	(5 Marks)
α,.	b. List the 5 taxiway lights and their colors.	(5 Marks)
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Q8.	Given the following data,	:- 2400 54
•	Runway length required for LANDING at sea level in standard atmosphere Runway length required for TAKEOFF at a sea level site in standard atmos M	
•	Aerodrome elevation is 200m	

• Aerodrome reference temperature is 24°C

- Temperature in the international standard atmosphere for 200 M is 13.7°C
- Runway slope is 0.4 %

What is the actual length of the runway? (5 Marks)

(Show your calculations)

Note: The basic runway length should be increased by 7% for every 300 M of elevation

Runway take off length corrected for elevation and temperature =

Corrected length for elevation x (Aerodrome temp – ART) 0.01 + corrected length for elevation

Runway take off length corrected for elevation, temperature and slope=

(Runway take off length corrected for elevation and temperature x slope x0.1) + Corrected Length for elevation and temperature

Q9 .a. Given the following data relating to HKJK R06,

- TORA is 4117m
- Stopway is 61m
- Clearway is 300m
   What are the declared distances for R06?

(3 Marks)

(Show your calculations)

b. Threshold for R06 is displaced by 200m. What is the new LDA? (2 Marks)