EAST AFRICAN SCHOOL OF AVIATION

ATS SECTION

FINAL EXAMINATION

THEORY OF FLIGHT AND COMMUNICATION

COURSE NO. ATC INDUCTION - ATC 74. DURATION 2HRS TIME (2-4PM) MARKS 100. Friday 28^{TH} April 2017.

WRITE YOUR ANSWERS IN THE SPACES PROVIDED.

1.	Name the system that connects all the ATS units in Kenya for sending and receiving messages concerning the movements of aircraft? (4 marks) ANS:							
2.	 The following designators belong to certain airlines. Name the country of the airline and pronunciation the call sign? 							
			DESIGNATOR	PRONUNCIATION	COUNTRY			
		а	CRL					
		b	KLM					
		С	UGA					
		d	MSR					
		е	UAE					

3. Describe the readability scale. Use the spaces provided in the table below? (10 marks)

	NUMBER INDICATING STRENGTH	DESCRIPTION OF STRENGTH
а		
b		
С		
d		
е		

4. List the aircraft control surfaces and write how they affect the aircraft attitude and indicate also the axis of rotation. Use the blanks below for your answers. (12 marks)

	Name of Control surface	Location on the aircraft	Effect on aircraft	Axis of rotation
а	Jarrace	diretate	direrare	
b				
С				

uses th	e principle to achieve lift	(10 marks)
ANS:		
••••••		

5. Define Bernoulli's principle and state briefly the HOW wing of an aircraft

		PISTON		TURBO- JE	T		
	1						
	2						
	3						
	4						
	5						
	6						
	List	the four for	ces that act	on an airc	raft?		(8 marks
: .							
			NATIONAL	ITY MARK			
		COUNTRY	NATIONAL	ITY MARK			
	a	Zimbabwe					
	b	Burundi					
	C	Kenya					
	d	Rwanda					
	e	Tanzania					
	F	Uganda					
•						-	marks)
			-	ound in kild	meters, s	tatute miles a	nd Nautical
		miles per	hour?				
		(i)	(ii) .		(iii)		
		b. Who was	Mach?				
•••	•••••						
		c State the	formula for	r the relation	anchin hat	tween the spe	and of soun

10.				(14 marks)
	a.	Write the	following airpo	orts using ICAO location indicators.
		ANSs:		
		(i)	London	
		(ii)	Kilimanjaro	
		(iii)	Dubai	
		(iv)	Mtito ANDEI	
		(v)	Malindi	
		(vi)	MOMBASA	
		(vii)	NAKURU	
		(viii)	NAIROBI	
		(ix)	WAJIR	
		(x)	LOKICHOKIO	
	b.	Use ICAO	phrases to exp	lain the following statements.

ANSs:

	Statements	ICAO
		Phrase
Α	Check and confirm with originator	
b	This exchange of transmissions is ended and no response is	
	expected	
С	My transmission is ended and I expect a response from you.	
d	No or Permission not granted or that is not correct	
е	That is correct	