Duration: 1½ Hrs



EAST AFRICAN SCHOOL OF AVIATION

AIS No. 36

CAT

SUBJECT: PRINCIPLES OF FLIGHT

STREAM: BASIC AIS COURSE No. 36

DATE: 04/04/2017 TIME 8.30 – 10.00 AM

INSTRUCTION TO CANDIDATES

1. This paper consists of *TWO* (2) Pages

2. Attempt all questions

3. Read and understand all questions before attempting

Q.1.	Define the following terms;	
	a) Aircraftb) Aerodynamicsc) Airfoils	
	d) Angle of attack e) Bernoulli's Principle	(20 marks)
Q.2.	List any ten parts of the body of an aeroplane	(10 marks)
Q.3 . flight	Briefly explain how each of the following elements affect t	the aeroplane in
	(a) Weight	
	(b) Drag	
	(c) Lift	
	(d) Thrust	
	(e) Icing	(20 marks)
_	List any ten flight instruments found in the cockpit of an a ped to fly both IFR and VFR	eroplane which is (10 marks)
Q.5.	How does an aeroplane achieve	
	(a) Horizontal stability	
	(b) Vertical stability	
	(c) Level flight	
	(d) Descent	(20 marks)
_	What parts of on aeroplane make it possible for the follow e aeroplane?	ing to be achieved
	(a) Turn Left or Right	
	(b) Climb	
	(c) Accelerate	
	(d) Remain afloat in the air	
	(e) Get airborne	(20marks)