

EAST AFRICAN SCHOOL OF AVIATION EXAMINATION

CAT

AIS/MAP SECTION

SUBJECT: FLIGHT NAVIGATION

Duration: 1 Hr 20 Min

STREAM AIS ICAO 021 No. 36

DAY/DATE: Wednesday, 10th May 2017 Time: 08.40 - 10.00 a.m.

TOTAL MARKS: 50

INSTRUCTION TO CANDIDATES

- 1. This paper consists of TWO (2) printed pages
- 2. Read **ALL** questions carefully before attempting any. Answer them as is appropriate. Answer **ALL** the questions.

Q1.	Explain briefly the meaning of the following terminologies:	
a)b)c)d)e)	Great Circles The Equator Meridians Wind direction Drift	
C)		(10 Marks)
Q2. E	Briefly explain the terms, variation and deviation	(4 Marks)
Q3. a)	Find the True direction if the compass direction is 110 degrees and variate West with a deviation of 6 degrees East. What is the Compass direction if the True direction is 150 degrees and variegrees east and deviation is 10 degrees west?	(3 Marks)
0.4	degrees east and deviation is 10 degrees west:	(3 Marks)
Q4. a)	A C208 at a speed of N0150 took two hours from Airport A to Airport B. distance between the two airports.	
b)	The distance from airport A to airport B is 840 nautical miles. How long va speed of N0420 take to move from A to B?	(3 Marks) will an E170 at
	a speed of 130 120 take to move from 11 to B.	(3 Marks)
Q5. Relief is the manner in which mountains, hills, valleys etc are shown on the map. List any three ways in which relief can be depicted in a map. (6 Marks)		
Q6. List any two properties of the Mercator's projection		(4 Marks)
Q7. State four methods that are used in indicating scale on maps and charts. (8 Marks		
Q8. I	List any three important qualities of a map projection	(6 Marks)