

EAST AFRICAN SCHOOL OF AVIATION EXAMINATION

CAT

AIS/MAP SECTION

SUBJECT: FLIGHT NAVIGATION

STREAM AIS ICAO 021 No. 36

Duration: 1 Hr 20 Min

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) Great Circles
- b) The Equator
- c) Meridians
- d) Wind direction
- e) Drift

(10 Marks)

Q2. Briefly explain the terms, variation and deviation			(4 Marks)	
Q3.				
	a)	Find the True direction if the compass direction is 110 degrees and variati West with a deviation of 6 degrees East.	on is 8 degrees	
			(3 Marks)	
	b)	What is the Compass direction if the True direction is 150 degrees and variation is egrees east and deviation is 10 degrees west?		
		6	(3 Marks)	
Q4.				
a) A C208 at a speed of N0150 took two hours from Airport A to Airport B. Cald distance between the two airports.			Calculate the	
		ľ	(3 Marks)	
	b) The distance from airport A to airport B is 840 nautical miles. How long will an E1' a speed of N0420 take to move from A to B?		vill an E170 at	
			(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)			(6 Marks)	
Q6.	Q6. List any two properties of the Mercator's projection (4 Marks)			
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Q7. State four methods that are used in indicating scale on maps and charts.

(8 Marks

Q8. List any three important qualities of a map projection (6 Marks)