

# EAST AFRICAN SCHOOL OF AVIATION EXAMINATION 

CAT

## AIS/MAP SECTION

## SUBJECT: FLIGHT NAVIGATION

## 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

Q2. Briefly explain the terms, variation and deviation
Q3.
a) Find the True direction if the compass direction is 110 degrees and variation is 8 degrees West with a deviation of 6 degrees East.
(3 Marks)
b) What is the Compass direction if the True direction is 150 degrees and variation is 20 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. Calculate the distance between the two airports.
(3 Marks)
b) The distance from airport A to airport B is 840 nautical miles. How long will an E170 at a speed of N0420 take to move from A 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. List any three important qualities of a map projection

