

11.1 PAPER 1 (312/1)

For paper 1, the questions discussed are questions 2, 3, 4 and 6.

SECTION A

Question 2

- (a) What is a latitude? (2 marks)
- (b) What is the time at Hola on 40°E when the time at Tema on 0° longitude is 12.00 noon? (2 marks)

Candidates were required to define 'latitude' and demonstrate knowledge on how latitudes are used to calculate time.

Weaknesses

Many candidates were not able to give the correct definition and calculate time correctly. Those who got the correct answer for (b) failed to indicate whether it was PM or AM.

Expected Responses

- a) It is the angular distance north or south of the Equator. It is an imaginary line drawn from west to east on a map or globe and measured in degrees north or south of the Equator.
- b) The earth rotates 15° in 1 hour so Hola will be ahead by

$$\frac{40^{\circ}}{15^{\circ}} = 2 \text{ hours } 40 \text{ minutes}$$

so it will be 2.40 pm at Hola /1440hours