



Confidential

MARK SCHEME

{527/02}

MARKS:40

1. (a) (i) What is the title of the map?
Arouca Trinidad [1]
- (ii) Name the public building found at 834747.
Post Office [1]
- (iii) Give the six figure grid reference of the school in the Kelly village in the South Western part of the map
788708 [1]
- (iv) What is the height of the trigonometrical station at 8371.
54 metres [1]
- (v) What type of plantation or crop is grown in square 8372?
Sugar-cane [1]
- (b) (i) What class of road is the Churchill Roosevelt Highway?
First class [1]
- (ii) Two tourists decide to drive from the town of Arouca along the Golden Groove road to visit the Piarco International Airport. What is the general direction did they drive towards?
South / South South West [1]
- (iii) Measure the bearing of the Post office in square 8374 from the church in square 8176.
 142° ($141^\circ - 143^\circ$) [1]
- (c) (i) Measure the distance along the Golden Groove road from its junction in Arouca (815752) to its junction with the Churchill Roosevelt Highway (810738).
1.5 kilometres/1500 metres (1400m/ 1.4km – 1600m/ 1.6km) [1]
- (ii) The junction at Arouca is 100 metres and the junction with the Churchill Roosevelt Highway is 50 metres above sea-level. Calculate the gradient Between the two points.
- $$\begin{aligned} \text{Gradient} &= \frac{100\text{m} - 50\text{m}}{2150\text{m}} \\ &= \frac{50\text{m}}{1500\text{m}} \\ &= \frac{1}{30} \text{ or } 1: 30 \\ &\quad (1:28 - 1:32) \end{aligned}$$
- [2]

(d) (i) State two social facilities found in the town of Arouca.

- Sports ground
- Post Office
- Police Station
- Church
- School
- Community Centre
- Health Office

Any 2 at 1

[2]

(ii) Give two reasons why part of the map on the far north-eastern part of Arouca is without settlements.

- Steep Slopes
- Rugged Terrain
- Broken Forest
- Scrub

Any 2 at 1

[2]

2. (a) (i) Define Research

- Inquiry/Investigation about something / finding more knowledge about something.

[1]

(ii) What is meant by population in research?

Group of people with similar characteristics / group of people included in the investigation

[1]

(iii) Form 3 Geography students decided to carry out a research on why students decided to stop eating in the school kitchen. They decided to sample by asking every 10th student they came across. What is this method of sampling the students used?

Systematic Sampling

[1]

(b) (i) Write the following tally in figures.

18

[1]

(ii) A Form 3 Geography teacher asked his students to read different books to find more information on the subject. What type of source is a book?

Secondary Source

[1]

3. (a) A school has bought a rain gauge and there are five possible sites where the

Rain gauge can be placed or sited as shown in Fig. 1 below.

- (i) What weather element is measured by using a rain gauge

Rainfall [1]

- (ii) Which of the five sites, A,B,C,D and E is best for the location of the rain gauge

Site C [1]

- (iii) Give one reason why you chose that site.

Open space/ clear place/ away from trees

In grass Any 1 at 1 [1]

- (iv) Choose any two sites and give reasons why you rejected each one of them

A – Next to a building

B – Under trees

D – It is a stone path

E – It is a garden Any 2 at 1 [2]

- (b) Study Fig. 2 which shows part of a river valley

- (i) X – Interlocking Spurs

Y – Meander

Z – Ox-bow Lake [3]

- (ii) Name the stages in which the following features are found

X – Upper Course/ Youthful Stage/ Torrent Stage

Z – Lower Course/ Old Age Stage [2]

4. (a) Study Figs. 3A, 3B and 3C which show information on population growth rate. Fill in the correct information about population change as shown by the arrows.

- (i) Increasing [1]
 (ii) Decreasing [1]
 (iii) Stationary/Static [1]

- (b) Fig. 4 shows factors that affect population growth. State the missing factors at X and Y.

X – Births

Y – Emigrants [2]

- (c) Study Fig. 5 which shows a method of reducing traffic congestion.

- (i) Name the method of reducing traffic congestion shown in Fig. 5

By-pass roads/ highway roads [1]

- (ii) Give one other method of reducing traffic congestion

- Flexi-time
- Paid parking
- Moving industries to the outskirts
- Pedestrianisation
- Build more parking areas
- Increase public transport
- Traffic lights,
- Roundabout/ ring roads,
- Overhead roads/ fly over roads, etc. Any 1 at 1 [1]

- (d) Fig. 6 below which shows a settlement hierarchy.

State the missing settlements A, B and C

A – Hamlet.

B – Village

C – City [3]