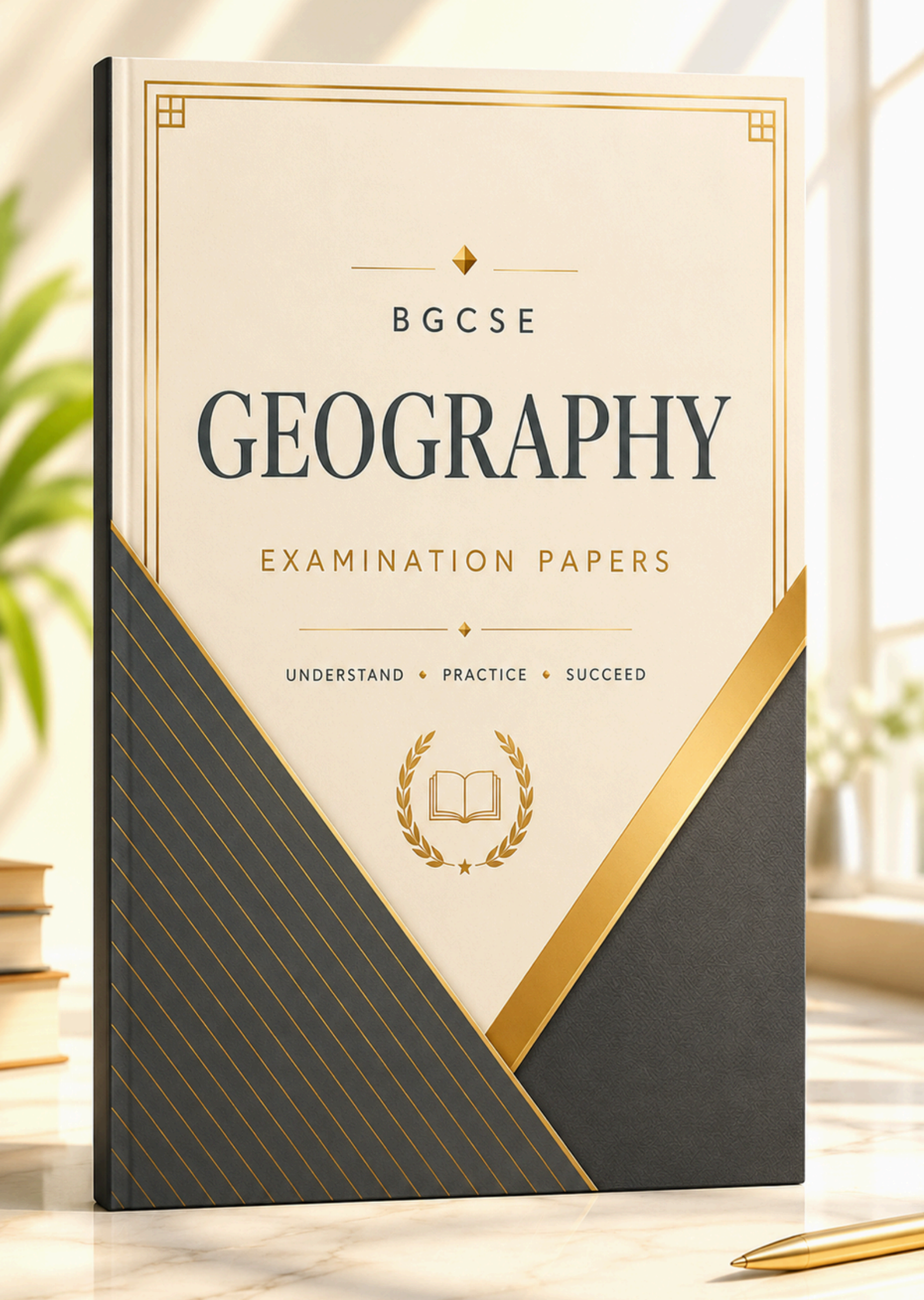
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GEOGRAPHY

PAPER 5 5109/5

Tuesday 26 MAY 2020 10:30 A.M.–12 NOON

Additional materials:
None

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NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS AND INFORMATION TO CANDIDATES

Do not open this booklet until you are told to do so.

Write your school number, candidate number, surname and initials in the spaces provided in this booklet.

Answer **ALL** questions. This paper accounts for 30% of the total marks. There are 3 questions in this booklet. The mark for each question is given in brackets [ ].

ALL answers should be written in the spaces provided for each question unless otherwise indicated. Sketch-maps and diagrams may be drawn whenever they serve to illustrate an answer.

This question paper consists of 12 printed pages.

Question 1

Students were studying weather and climate in class. They carried out some fieldwork to investigate how temperature varied in February and May.

The students investigated the following hypotheses:

- Hypothesis 1: The temperature is hotter in May than February.
- Hypothesis 2: The temperature varies more in February than May.

The temperature recordings were taken at 8 a.m. and 2 p.m. each school day (Monday to Friday).

Table 1 shows the data collected for the first week in February

Week 1

	Monday	Tuesday	Wednesday	Thursday	Friday
8 a.m.	21 °C	22 °C	24 °C	26 °C	27 °C
2 p.m.	27 °C	26 °C	28 °C	28 °C	29 °C

Table 1

(a) (i) Suggest what weather equipment was used to record the temperature?

_____ [1]

Using the data in Table 1, calculate the average temperature

(ii) Using the data in Table 1, calculate the average temperature for Monday and Thursday in week 1.

Monday: _____

Thursday: _____ [2]

(iii) Suggest **ONE** advantage and **ONE** disadvantage of the data collection method shown in Table 1.

Advantage: _____

_____

Disadvantage: _____

_____ [2]

	Week 1					Week 2					Week 3					Week 4				
	M	T	W	TH	F	M	T	W	TH	F	M	T	W	TH	F	M	T	W	TH	F
February °C	—	24	26	—	28	28	29	30	32	28	27	26	29	28	25	27	28	26	26	28
May °C	30	32	30	30	32	29	29	32	31	32	28	31	32	30	31	33	33	34	33	33

Table 2

Table 2 shows the total average temperatures collected for the months of February and May.

(b) (i) Place the average temperatures for Monday and Thursday (Week 1) in the table above. [2]

Calculate the following:

(ii) Temperature range for February.

_____ [1]

(iii) Temperature range for May.

_____ [1]

(iv) Average temperature in February.

_____ [1]

(v) Average temperature in May.

_____ [1]

(c) (i) Complete the line graph in Figure 1 using the data provided in Table 2. [8]

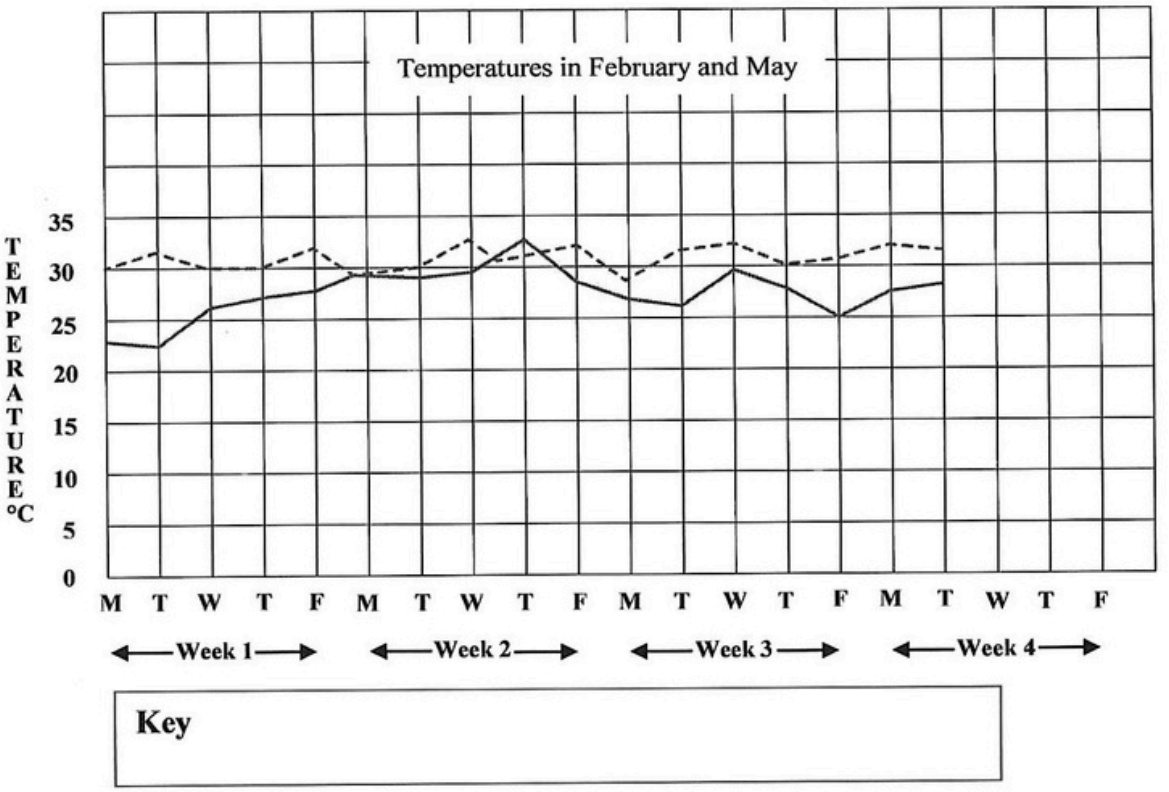


Figure 1

(ii) Use the box above to create a key for Figure 1. [2]

(d) (i) Place a tick [✓] in the correct column to select your choice [2]

	True	False
Hypothesis 1 The temperature is hotter in May than February		
Hypothesis 2 The temperature varies more in February than in May		

(ii) Support your decision with evidence from Table 2.

Hypothesis 1: _____

_____

Hypothesis 2: _____

_____ [2]

(e) Explain **TWO** ways that schools could use this data.

1. _____

_____

2. _____

_____ [2]

Question 2

Students were studying traffic issues in class. They carried out some local fieldwork to look at what vehicles were using the roads and the type of problems this was causing.

The students investigated the hypothesis:

- Traffic problems decrease with distance from the town centre.

To collect the data the students were divided into four groups to count the traffic.

(a) Suggest **TWO** things which had to be decided to make sure their data collection was valid.

1. ____

____

2. ____

____ [2]

Table 3 shows the results of the traffic count

Type of vehicle	**Tally**	**Total**
Car	卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 II	—
Bus		**21**
Truck	卌 卌 卌 卌 卌 卌 卌 卌 卌 I	**46**
Company Vehicles	卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 III	**63**
Bicycles	卌	—

Table 3

(b) (i) Complete Table 3.

- Complete the tally marks for buses.
- Calculate the total for cars.
- Calculate the total for bicycles. [3]

(ii) Suggest **ONE** problem with the classification of vehicle types.

_____ [1]

(iii) Suggest **TWO** other problems students may have encountered in collecting data.

1. _____

_____

2. _____

_____ [2]

(iv) Suggest **THREE** types of graphs which could be used to display these results.

1. _____

2. _____

3. _____ [3]

(c) (i) Suggest **THREE** reasons why cars were more popular than buses.

1. _____

_____

2. _____

_____

3. _____

_____ [3]

(ii) Suggest **THREE** reasons why bicycles were the least popular method of transport.

1. _____

_____

2. _____

_____

3. _____

_____ [3]

(iii) The students wanted to investigate how the traffic caused problems in the area.

Describe **TWO** methods that could be used to do this.

1. _____

_____

2. _____

_____ [4]

(d) Suggest **TWO** groups of people who would benefit from a traffic study and explain why.

1. _____

_____

_____

2. _____

_____

_____ [4]

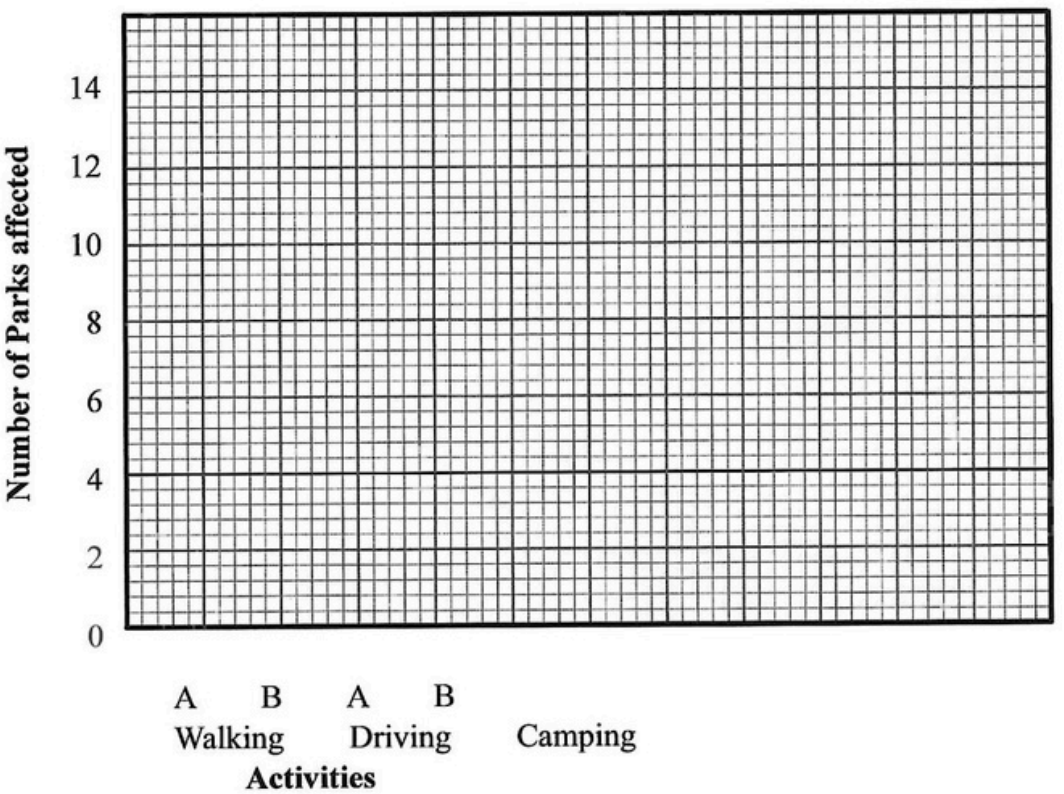
Question 3

A survey was carried out to investigate the impact of leisure activities on twelve National Parks. The results are shown in Table 4.

Activity	**Impact**	Number of Parks affected
Walking	– A. Disturb wildlife and breeding grounds – B. Footpaths by walkers erode grass and lead to soil erosion	7 6
Driving	– A. Car tracks damage vegetation – B. Create air and noise pollution	5 6
Camping	– Land pollution	12

Table 4

(a) (i) Create a bar graph to show the data collected. [5]



(ii) Which activity affects the highest number of parks?

_____ [1]

(iii) Which activity affects the lowest number of parks?

_____ [1]

(iv) Describe in detail a fieldwork technique which could be used to investigate one of the problems in Table 4.

_____

_____

_____

_____

_____

_____ [3]

(v) Suggest **THREE** ways in which visitor trampling can be limited in National Parks.

1. _____

_____

2. _____

_____

3. _____

_____ [3]

(vi) Questionnaires are to be used in this study. Suggest **THREE** things which should be considered when designing a questionnaire.

1. _____

2. _____

3. _____ [3]

(b) (i) Suggest **THREE** other solutions to decrease the impact of air and noise pollution on National Parks.

1. _____

_____

2. _____

_____

3. _____

_____ [3]

(ii) Many persons believe that it is impossible to protect National Parks. Suggest **THREE** ways in which National Parks could be negatively affected by people.

1. _____

_____

2. _____

_____

3. _____

_____ [6]

End]