



DEPARTMENT OF EDUCATION

HIGHER SCHOOL  
CERTIFICATE  
EXAMINATIONS

# GEOGRAPHY

PAPER 1

Tuesday

19 October 2010

Time allowed: 1 hour

(11:00am – 12:00am)

**NO EXTRA TIME WILL BE  
ALLOWED**

Candidates are advised to  
fully utilise the allocated  
time

# G1

## INSTRUCTIONS TO CANDIDATES:

*To be read out by the external invigilator before the start of the examination)*

1. Check that there are 4 printed pages in this paper.
2. Write your **name**, **number** and **school name** in the spaces below.
3. This paper contains 17 questions, worth a total of 30 marks.
4. You will be given Papua New Guinea Topographic Survey Sheet 7585 KUTUBU for use with questions 1 to 17 in this paper.
5. Rulers are required.

Year	Province	School No.	Cand. No.
1 0			
Name: _____			
School: _____			

**THE PENALTY FOR CHEATING OR ASSISTING OTHERS TO  
CHEAT IN NATIONAL EXAMINATIONS IS NON-  
CERTIFICATION.**

**DO NOT TURN OVER THE PAGE  
AND DO NOT WRITE UNTIL YOU  
ARE TOLD TO START.**

**Answer all questions in the spaces provided in this booklet. Show all necessary working for the award of full marks.**

**QUESTION 1**

What riverine feature, shown on the map, as evidence to suggest that Mubi River has changed its previous river course to the current location.

\_\_\_\_\_ (1)

**QUESTION 2**

What direction is Wasemi Island from Iburu Point on Lake Kutubu?

\_\_\_\_\_ (1)

**QUESTION 3**

Name the village at grid reference 660869.

\_\_\_\_\_ (1)

**QUESTION 4**

Which of these grid references is the most suitable for an airstrip?

A. 666 855      B. 735 974      C. 595 835      D. 545 915      (1)

**QUESTION 5**

What is the approximate short line distance, in kilometres, between Gesege Village (659869) and Lake Kutubu Patrol Post (537967).

*Give your answer to the nearest tenth of a kilometre.*

\_\_\_\_\_ (1)

**QUESTION 6**

At what six-figure grid reference is Mt Castle located?

\_\_\_\_\_ (1)

**QUESTION 7**

What type of drainage pattern is found at grid reference 6082?

\_\_\_\_\_ (1)

**QUESTION 8**

On the topographic map of Kutubu there are numerous sinkholes found. How were they formed and in what type of rock?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)

**QUESTION 9**

Calculate approximately the total distance, in kilometres, of Hegigio River from grid reference (213152) to grid reference (212028).

Round your answer to a nearest kilometre. \_\_\_\_\_ (1)

**QUESTION 10**

Explain why Digimu River is not visible from Iburu Point.

\_\_\_\_\_  
 \_\_\_\_\_ (2)

**QUESTION 11**

Which of the following is the approximate area, in square kilometres, covered by Lake Kutubu?

- A. 52                      B. 5.2                      C. 520                      D. 5200                      (1)

**QUESTION 12**

A helicopter flies from a remote village (705069) to Montanda Mission (734088).

(i) Which of the following best describes the course set by the pilot?

- A. South-West              B. South-East              C. North-East              D. North- West              (1)

(ii) The pilot is required to clear the hills by at least 150 metres. How high, to the nearest 100 metres, must the helicopter fly?

- A. 2300                      B. 2500                      C. 2700                      D. 2900                      (1)

(iii) What is the approximate bearing required for the pilot to fly directly from the remote village to Montanda Mission.

- A. 045°                      B. 090°                      C. 180°                      D. 225°                      (1)

**QUESTION 13**

(i) What is the distance, to the nearest kilometre, from the top of Mount Kerewa (378349) to the edge of the falls (351356)?

\_\_\_\_\_ (1)

(ii) What is the change in altitude, to the nearest 100 metres, from the top of Mount Kerewa to the edge of the falls?

\_\_\_\_\_ (1)

(iii) Using your answers from (i) and (ii), the average gradient from the top of Mount Kerewa to the edge of the falls is approximately

- A. 1 in 30                      B. 1 in 8                      C. 1 in 4                      D. 1 in 2                      (1)

**QUESTION 14**

Rain falling at 368 110 will drain through four rivers named on the map.

Name the second and the fourth river into which it will drain.

2<sup>nd</sup> \_\_\_\_\_ 4<sup>th</sup> \_\_\_\_\_ (2)

**QUESTION 15**

What is indicated on the map at the peak of Mount Imila (515345)?

- A. landslide
  - B. trig station
  - C. spot elevation
  - D. depression contour
- (1)

**QUESTION 16**

- (i) Name the vegetation type found at grid reference 603175. \_\_\_\_\_
- (ii) Briefly, explain how this feature above was created?

\_\_\_\_\_  
\_\_\_\_\_ (2)

**QUESTION 17**

Using information presented on the map, account for the settlement and land-use patterns on the area covered by the map.

**Your answer should include reference to:**

- the natural systems present and how they have influenced social and economic activities;
  - the effects people have had on the natural systems;
  - the terrain, likely food sources, cash crops and transport.
- (5)

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