

**International General Certificate of Secondary Education  
CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**DEVELOPMENT STUDIES**

**0453/4**

PAPER 4 Alternative to Coursework

**OCTOBER/NOVEMBER SESSION 2002**

1 hour 30 minutes

Additional materials:  
Answer paper

**TIME** 1 hour 30 minutes

**INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer **all** questions.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

**INFORMATION FOR CANDIDATES**

The number of marks is given in brackets [ ] at the end of each question or part question.

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**This question paper consists of 6 printed pages and 2 blank pages.**



- 1 Study Figs 1 and 2 which are about research carried out in Malawi, a developing country in Africa.

A group of students from a girls` school in the U.K. carried out a survey in Malawi as part of a study carried out by the Kasungu District Hospital. This hospital serves half a million people but has only one doctor, 50 beds and not enough drugs and equipment.

With the help of six local students from Malawi they carried out interviews and observation at a sample of 25 homes in the village of Nkano. They were trying to find out about the health of the people in Nkano.

**Fig. 1**

- (a) What is meant by
- (i) an interview, [1]
  - (ii) observation, [1]
  - (iii) a sample? [1]
- (b) (i) Suggest why the students used a **sample** of people to interview and observe. [1]
- (ii) Describe **two** ways by which the sample of 25 homes could have been chosen. [2]
- (c) Suggest reasons why the girls from the U.K. needed help from local students to carry out this survey. [2]
- (d) Describe **three** practical difficulties which you think the students might have had in carrying out this survey. [3]

Date of survey .....

**1. Information about person being interviewed:**

Sex..... Estimated age .....

**2. Information about people living in the home:**

Number of people living in home .....

Number of children under 5 .....

**3. Information about sanitation:**

Do you have a pit latrine? Yes ..... No .....

If `yes` how far away is it from the home?

Nearer than 15 metres ..... Further away than 15 metres .....

What method of rubbish disposal do you use? .....

**4. Information about water supply:**

What is your source of water supply?

Borehole ..... Protected well ..... Unprotected well ..... River/stream .....

In what condition are the surroundings? .....

How is drinking water stored? .....

**5. Information about diseases and their causes:**

Which diseases are common in your family? .....

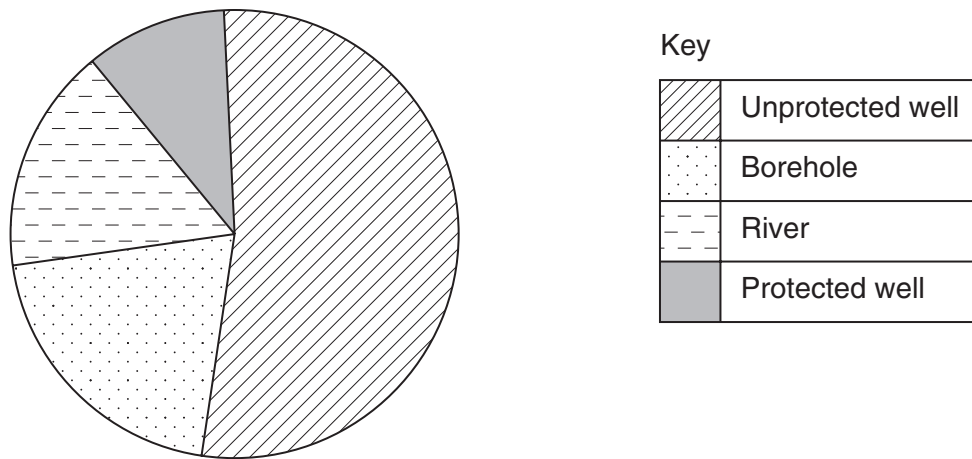
How are patients cared for? .....

Is there evidence near to the home of areas where mosquitos could breed? Yes/No

Is there evidence in the home of flies ..... cockroaches ..... rats ..... other pests .....?

**Fig. 2 Extract from interview/observation sheet used in Nkano, Malawi**

- 2 Fig. 3 shows the information about how the sample of 25 people obtained their water supplies.



**Fig. 3 Sources of water supply of people interviewed in Nkano village.**

- (a) (i) How did most people interviewed obtain their water? [1]  
 (ii) What method has been used in Fig. 3 to present the information? [1]  
 (iii) Explain why the method used is suitable to show the information. [2]
- (b) Study Fig. 4 which shows information about sanitation obtained from interviews with 25 people in Nkano.

<b>Availability of pit latrines.</b>	
No pit latrine available.	7
Pit latrine less than 15 metres from home.	10
Pit latrine further than 15 metres away from home.	8

<b>Methods of rubbish disposal used.</b>	
Rubbish buried in covered pit.	12
Rubbish dumped in bushes.	10
Rubbish burnt.	3

**Fig. 4**

Present the information about pit latrines shown in Fig. 4 by using a suitable method. Use a different method to present the information about rubbish disposal. [6]

- (c) Many people who live in Nkano suffer from diarrhoea, typhoid and dysentery. What evidence in Figs 3 and 4 may help explain the causes of these diseases? [4]

- 3 Imagine that you are able to interview the doctor at the Kasungu District Hospital to find out more about the health of people in Nkano.

Write down 4 questions which you could ask the doctor which would provide you with further useful information about the health of people in Nkano. [4]

- 4 Read the information in Fig. 5 about Kasungu District Hospital.

Due to the shortage of staff each patient must bring a `carer` to look after them. These `carers`, who are often relatives of the patients, are often not very helpful because they do not understand basic medicine.

**Fig. 5**

- (a) Describe in your own words how the hospital have tried to solve the problem caused by shortage of staff. [1]
- (b) Suggest any **other** methods which could be used to improve the level of medical care in the Kasungu District. [5]





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*Copyright Acknowledgements:*

Questions 1 and 4      Figs 1 and 5. Wideworld Magazine. Phillip Allen Publishers. September 1998.  
Question 1              Leeds Girls High School.

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