



# Ministry of Education Youth and Information (G6) Booklet

Name: \_\_\_\_\_ Exam: \_\_\_\_\_

School Name: \_\_\_\_\_

Examination: \_\_\_\_\_

Subject: Science

Candidate's Signature

Sign only within shaded area of this box

## GENERAL INSTRUCTIONS

1. Place your signature in the box to the left labelled "Candidate's Signature".
2. Do **NOT** mark or write outside the signature area.

DO NOT WRITE/MARK IN THIS AREA

Registration Number									
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
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4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

Absent

School Code					
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4	4	4	4	4	4
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7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Paper Code					
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5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

## INSTRUCTIONS TO STUDENTS

Read the instructions below before answering the questions in the booklet:

1. This booklet contains 10 questions. Space is provided for you to shade your answer inside the booklet. There is no separate answer sheet.
2. **ALL** questions must be answered in the test booklet by shading the selected letter-space for the answer.
3. Read each question carefully. Based on instructions given for some questions, they may have more than one correct answer.
4. For each question, options are given to choose from. Indicate the answer or answers you have selected for each question by shading the corresponding letter-space from the options given.
5. If you change any of your answers, erase the first shaded answer completely, then shade in the new answer.

Do not make any stray marks on the answer sheet.

CORRECT: ● INCORRECT: ☑ ☒ ○ ○

BOOKLET # ASSIGNED



123456701



# Science

Answer ALL questions by shading the circle that matches your answer.

## Question 1

Carol wants to determine how hard three minerals, Mineral A, Mineral B and Mineral C, are. The results of Carol's experiment are shown in the table below.

	Mineral X	Mineral Y
Mineral A scratches	No	No
Mineral B scratches	No	Yes
Mineral C scratches	Yes	Yes

Place the three minerals, Mineral A, Mineral B and Mineral C, in order according to how hard they are, from most hard to least hard. Shade the letter of the minerals in order of hardness.

Most Hard    Least Hard

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Question 2**

Which situation below shows the effects of **loud** sounds on humans?

- (A) The baby slept for several hours because of the music her mom played.
- (B) The lady had to move closer to the radio to hear the music it was playing.
- (C) The child lost some of her hearing because she stood too close to the speaker at the party.
- (D) The boy loves to hear the sound of the rain falling on the ground.

**Question 3**

The picture shows a common human activity. Use the picture to answer the question which follows.



Based on the picture, which **two (2)** statements are **likely** effects that the human activity can have on the environment?

- (A) The activity can add large amounts of carbon dioxide to the atmosphere.
- (B) The activity can make the river unsafe for animals that depend on it.
- (C) The activity can lead to an increase in the number of fish that live in the river.
- (D) The activity can cause the growth of germs and bacteria in the water.

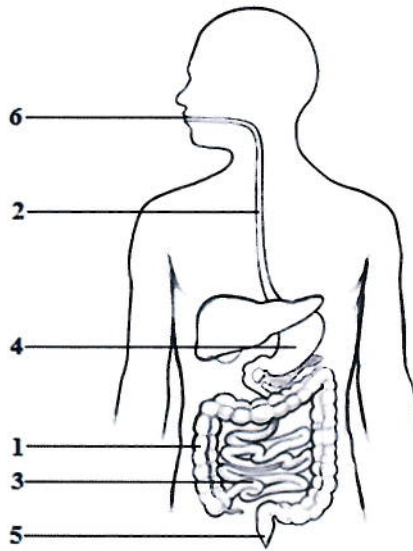
**Question 4**

For each of the following, indicate by shading under the column whether you **agree** or **disagree** with the statements about legal and illegal drugs.

Statement	Agree	Disagree
A drug that can be bought at the pharmacy is a legal drug.	<input type="radio"/>	<input type="radio"/>
Only illegal drugs can have a harmful effect on the body.	<input type="radio"/>	<input type="radio"/>
A drug that can be bought at the pharmacy without a prescription is an illegal drug.	<input type="radio"/>	<input type="radio"/>

**Question 5**

Below is a diagram showing the human digestive system. Use the information to complete the activity which follows.



Shade the number that identifies the organ in the diagram above.

Organs	Label numbers					
small intestine	①	②	③	④	⑤	⑥
oesophagus	①	②	③	④	⑤	⑥
anus	①	②	③	④	⑤	⑥
large intestine	①	②	③	④	⑤	⑥

**Question 6**

The list below contains the names of organs associated with the digestive system.

- |                    |               |
|--------------------|---------------|
| A. small intestine | D. oesophagus |
| B. stomach         | E. mouth      |
| C. large intestine | F. anus       |

Shade the letter that corresponds to the word found in the list above so that the resulting sentence is correct. Use all the options. **Some options may be used more than once.**

Food enters our body through our **A B C D E F** . From there the food travels to

the **A B C D E F** through a narrow tube called the **A B C D E F** .

The food will then leave the **A B C D E F** and enter the **A B C D E F** .

The food like matter will move from the **A B C D E F** and enter the

**A B C D E F** . The waste material will then leave the body through the

**A B C D E F** .

**Question 7**

Below are drawings students did after investigating the properties of light and how it interacts with objects of different characteristics.



**Window**



**Mirror**

**KEY**

← **light rays**

Which statement represents the **most likely** conclusion the students could make based on the observations they made.

- (A) Light travels very fast and it passes through some objects.
- (B) A shadow is formed when light comes in contact with opaque objects.
- (C) Light travels in a straight line and interacts with objects in the same way.
- (D) When light comes in contact with shiny surfaces it changes direction.

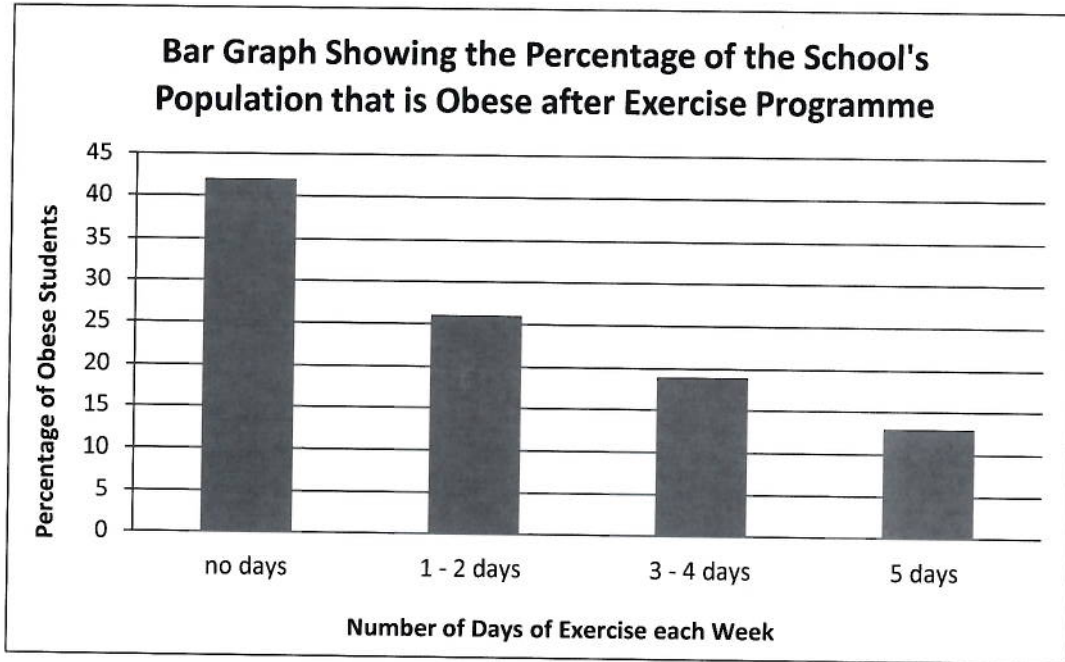
**Question 8**

For each of the following, indicate by shading under the column whether you **agree** or **disagree** with the statements about human activities and the effects they have on the environment.

<b>Statements</b>	<b>Agree</b>	<b>Disagree</b>
The cutting down of large numbers of trees can result in flooding in low lying communities.	<input type="radio"/>	<input type="radio"/>
The cutting down of large numbers of trees can affect the rainfall in an area.	<input type="radio"/>	<input type="radio"/>
The practice of replanting trees will not help to reduce the greenhouse effect.	<input type="radio"/>	<input type="radio"/>

**Question 9**

The bar graph shows the results of a year long school exercise programme. Some students were asked to exercise 1-2 days a week, and some students were asked to exercise 3-4 days a week, while other students were asked to exercise 5 days a week. One group of students did no exercise.



Based on the information in the bar graph, indicate by shading under the column, whether there is **evidence to support** the statement, or there is **no evidence to support** the statement.

Statements	Evidence to support	No Evidence to support
The more children exercise the <b>more likely</b> they will become obese.	<input type="radio"/>	<input type="radio"/>
There are more girls who are obese than boys.	<input type="radio"/>	<input type="radio"/>
<b>Less</b> than 15% of children may become obese if they exercise 5 days a week.	<input type="radio"/>	<input type="radio"/>

**Question 10**

The table below gives a description of three different mixtures.

<b>Mixture A</b>	The mixture contained tiny solid particles that did not dissolve and sank in the liquid.
<b>Mixture B</b>	The mixture contained salt and water.
<b>Mixture C</b>	The mixture contained tiny particles that could be seen floating throughout the liquid.

The statements below are methods that could be used to separate each mixture. Select the mixture **A, B or C** on the right that is **best** separated by the method on the left.

**Method**

**Mixture**

Boil the mixture so that the water evaporates leaving the solid material behind.

(A) (B) (C)

Allow the particles to settle to the bottom of the liquid and gently pour off the liquid.

(A) (B) (C)

Pour the mixture through filter paper and collect the particles.

(A) (B) (C)