

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
AS GCE
F732/01
GENERAL STUDIES
The Scientific Domain
WEDNESDAY 7 JUNE 2017: Afternoon
DURATION: 1 hour
plus your additional time allowance
MODIFIED ENLARGED 24pt**

Candidate forename						Candidate surname				
Centre number						Candidate number				

Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

Scientific calculator

**A CALCULATOR MAY BE USED FOR
THIS PAPER**

READ INSTRUCTIONS OVERLEAF



INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.

Use black ink. HB pencil may be used for graphs and diagrams only.

Answer ALL the questions in Section A and ONE question in Section B.

Read each question carefully. Make sure you know what you have to do before starting your answer.

Write your answer to each question in the space provided. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.

INFORMATION FOR CANDIDATES

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

The total number of marks for this paper is 60.

You are advised to divide your time equally between Sections A and B.

THE QUALITY OF YOUR WRITTEN COMMUNICATION WILL BE ASSESSED, INCLUDING CLARITY OF EXPRESSION, STRUCTURE OF ARGUMENTS, PRESENTATION OF IDEAS, GRAMMAR, PUNCTUATION AND SPELLING.

Any blank pages are indicated.

BLANK PAGE

SECTION A

Answer ALL of the questions in this section.

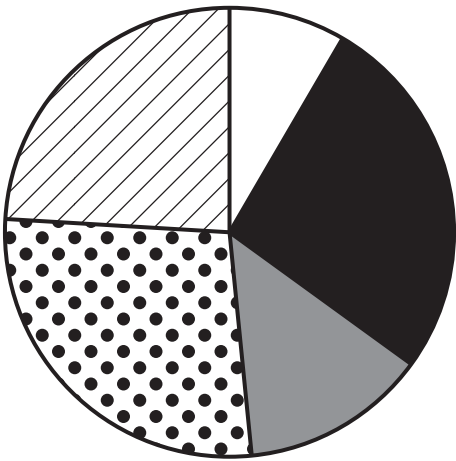
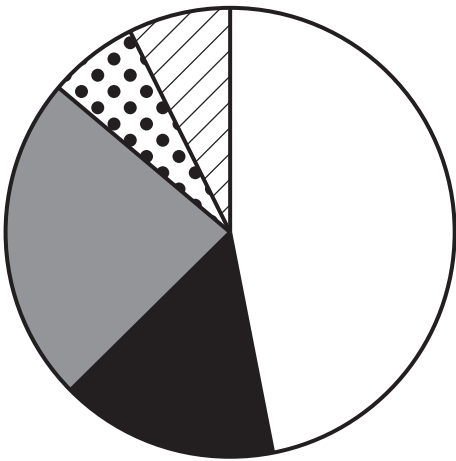
- 1 FIGURE 1 below shows the percentages of teenagers communicating daily with friends.
FIGURE 2 below shows the percentages of teenagers communicating less often with friends.

Percentages of teenagers communicating daily with friends
FIGURE 1

Percentages of teenagers communicating less often with friends
FIGURE 2

KEY

- text messaging
- talking on the phone
- on social media sites
- emailing
- video chatting



- (a) (i) From FIGURE 1 estimate the percentage of teenagers that communicated daily on social media sites.
- _____ [1]
- (ii) From FIGURE 2 estimate the percentage of teenagers that communicated less often by text messaging.
- _____ [1]

[2]

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the entire width of the page. There are no margins, text, or other markings on the paper.

[illegible]

2 (a) John wants to climb some stairs. He can either climb one stair at a time (S) or two stairs at a time (L). For example, to climb three stairs he can climb:

one stair at a time S S S

one stair followed by two stairs at a time S L

two stairs at a time followed by one stair L S

Therefore, John has three different ways that he can climb three stairs.

List the different combinations of ways that John can climb FOUR stairs.

[3]

- (b) Find the next TWO numbers in this sequence.
Explain how you worked them out.**

1, 9, 25, 49, _____ , _____

- (c) An energy company wants to increase its sales of solar-generated power over the next three years.**

It has identified three areas of research that will need to be explored:

types of energy already in use

sales of energy in the last year

types of households and/or industry that might be targeted.

Explain how this information might help the company increase its sales. [9]

[9]

SECTION B

**Answer ONE question from this section.
Your answer should be in continuous prose.**

Answer in the space provided on pages 10 to 15.

- 3

Outline and discuss why it is important to monitor air quality.
[30]
- 4

Outline and discuss why the use of mathematics is so important to people in their everyday lives. Use examples to illustrate your answer. [30]
- 5

What do you understand by the term ‘unhealthy lifestyle’? Outline and assess TWO ways that a person can make changes that would lead to a healthier lifestyle. [30]

The question number must be clearly shown.

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

[illegible]

