GENERAL CERTIFICATE OF SECONDARY EDUCATION MATHEMATICS C (GRADUATED ASSESSMENT)
MODULE M1 - SECTION B

Candidates answer on the question paper
Additional materials: Geometrical instruments
Tracing paper (optional) Electronic calculator


## INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Show your working. Marks may be given for a correct method even if the answer is incorrect.
- Answer all the questions.
- Do not write in the bar codes.
- Do not write outside the box bordering each page.
- Write your answer to each question in the space provided.


## 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 Section is 25.
- You are expected to use a calculator in Section B of this paper.
- $\quad$ Section B starts with question 7.

FOR EXAMINER'S USE
SECTION B

This document consists of 8 printed pages.

Formulae Sheet

$$
\text { Area of trapezium }=\frac{1}{2}(a+b) h
$$



Volume of prism $=($ area of cross-section $) \times$ length


7 (a) Look at these shapes.

(i) Write P inside the pentagon.
(ii) Write O inside the octagon.
(b) Measure the perimeter of the triangle below.

Give your answer in centimetres.

(b)
cm

8 (a) The length of a swimming pool is 20 metres.
John swims 45 lengths of the swimming pool.
How many metres does he swim altogether?
$\qquad$
(a)
m [2]
(b) Ashia is going to swim three lengths.

She can swim Crawl, Fly and Back stroke.
She is going to swim one length of each.
Write down all the different ways she can swim 3 lengths. The list has been started for you.

|  | First length | Second length | Third length |
| :---: | :---: | :---: | :---: |
|  | Crawl | Fly | Back |
| You may <br> not need all <br> the lines. |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

(c) John uses one of these lockers

(i) John's locker has an even number.

Circle all the lockers which have an even number.
(ii) John's locker has a number which is also divisible by 5 .

What number is John's locker?
(c)(ii) .................................. [1]

9 Ray buys a pack of 12 ice creams.
The pack contains
6 vanilla
2 chocolate
4 strawberry.
Ray takes one of these ice creams without looking.


Choose the best word to complete each of these sentences.
It is $\qquad$ that this ice cream is chocolate.

It is $\qquad$ that this ice cream is vanilla.


10 (a) Shade $\frac{1}{4}$ of this shape.

(b) Work out $\frac{3}{4}$ of 24 .
(b)
(b)

(c)



12 Complete these sentences.
1 centimetre is the same as $\qquad$ millimetres.
0.5 centimetres is the same as $\qquad$ millimetres.
$\qquad$ centimetres is the same as 24 millimetres.

13 Draw a 2 times enlargement of the shape below.
The first line has been drawn for you.


## TURN OVER FOR QUESTION 14

14

(a) Write down the coordinates of point B .
(a) $\qquad$
(b) Point D is at $(2,7)$.

Plot point D on the grid.
(c) Join points A, B, C and D to make a rectangle.

Find the area of rectangle ABCD .
$\qquad$
(c)
$\mathrm{cm}^{2}$
(d) Draw a straight line from point A to point C .

Measure the line AC.
Give your answer in millimetres.
(d)

