

August 2020

MATHEMATICS 1

Answer nine questions in all: all the questions in section A and four questions from section B. Answers to questions in section B should be supported by two decimal places.
Graph paper are inserted into the answer booklet for your use in the examination.
The use of non-programmable, silent and hand-held calculators are allowed unless otherwise stated.

SECTION A (40 Marks)

Answer all questions from this section.
All questions carry equal marks.

- a) Two years ago a woman was 7 times as old as her daughter, but in 3 years' time she would be 3 times as old as the girl. How old are they now?

b) Simplify $(1 - \sqrt{3})\left(\frac{1}{2} + \sqrt{3}\right)$, leaving your answer in the form $p + q\sqrt{3}$.
- a) The diagonals of a rhombus are 12cm and 16cm. Calculate the perimeter of the rhombus.

b) The hypotenuse of a right angle triangle is 13cm. If one other side of the triangle is 5cm shorter than the hypotenuse, calculate the third side of the triangle.
- a) Draw the multiplication table on the 9 × 9 grid below.

b) From your table, calculate:
(i) $(3 \otimes 5) \otimes (5 \otimes 9)$
(ii) $(5 \otimes 9) \otimes (7 \otimes 9)$
- a) Given that $P = \frac{x^2 - y^2}{x^2 + y^2}$.

(i) express p in its simplest form.

(ii) find the value of p if $x = -4$ and $y = -6$.
- a) Solve the simultaneous equation,
 $2p - 3q = 4$
 $3p + 2q = 9$

b) If $223_x = 87$, find x .

SECTION B (20 Marks)

Answer four questions from this section.
All questions carry equal marks.

- a) The distance from a village to the sea front. The ratio of the length of the road to its width is 7:2. Calculate the dimensions of the road.

b) The cost of an electrical gadget and the cost of a plumbing service vary in the ratio 4:3. This year, each cost was reduced by 40% and the total cost decreased by 75%. Assuming the initial cost of the electrical gadget is the same as that of the plumbing service. Calculate the value of p and q .
- a) Copy and complete the following table for the relation $y = 2^x$. Let x be 0, 1, 2, 3, 4, 5.

x	0	1	2	3	4	5
y						

b) Using a scale of 2cm to represent 1 unit on both axes, draw the graph of the relation $y = 2^x - 5x + 2$.

c) From the graph, find:
(i) The truth set of $x^2 - 5x + 2 = 0$
(ii) The least point on the graph of the relation $y = 2^x - 5x + 2$
(iii) The equation of the line of symmetry of the equation $y = 2^x - 5x + 2$.
- a) A school has 36 vacancies for teachers, out of which 22 are mathematics and 17 for First Arts. Of these vacancies 1/3 are mathematics, 1/3 for both mathematics and First Arts only. Venn diagram, find the number of teachers who must:
(i) All these subjects.
(ii) First Arts only.
(iii) English Language and mathematics to

b) Solve for x , if $223_x = 125_{10}$.

Leaked Mathematics Nexam Paper 24

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