



MATHEMATICS
Syllabus D
Paper 2

OCTOBER 2019

Time: 2h 30 min

Candidates answer on the Question Paper

READ THESE INSTRUCTIONS FIRST

- Write down your index number in the space provided on the top of the page.
- Write in dark blue or black pen.
- You may use a pencil for any diagrams or graphs.
- Do not use staples, paper clips, highlighters, glue or correction fluid.

ANSWER ALL QUESTIONS.

- Give non-exact numerical answers correct to 3 significant figures, or 1 decimal places in case of angles in degrees, unless a different level of accuracy is specified in the question.
- The number of marks is given in bracket [] at the end of each question.
- The use of electronic calculator is expected where appropriate.
- You are reminded of the need of clear presentation in your answers.

The total number of marks for this paper is 100.

NO pupil will be allowed to leave the examination room until the allocated time is over

1.

- a. Express $\frac{2}{2x+3} + \frac{1}{x+4}$ as a single fraction.

Answer:.....[3]

- b. Simplify $4x + 5y + 2(x + y)$.

Answer:.....[2]

- c. Solve $6x - 9 = 8(1 - x) + 2$.

Answer:.....[2]

- d. Solve the simultaneous equations.

$$\begin{aligned} 2x - 5y &= 20 \\ x + y &= 3 \end{aligned}$$

Answer: $x = \dots\dots\dots$
 $y = \dots\dots\dots$ [3]

2.

- a. On one day, this year, the exchange rate between US dollar (\$) and Mauritian rupees (Rs) was \$1=Rs 31.50. Andy changed Rs 14175 into dollars. Calculate how many dollars he received.

Answer:.....[2]

- b. Eric bought a car for Rs 805 000. This price included a tax of 15%. Calculate the tax that was paid.

Answer:.....[2]

- c. After 20% discount, the price of an article is Rs 5660. Calculate the original price of the article.

Answer:.....[2]

- d. A shopkeeper makes a profit of 30% when he sells a bicycle for Rs 1950. Calculate the cost price of the bicycle.

Answer:.....[2]

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