

**MATHEMATICS
PAPER 1**

Question-Answer Book for Sections A and B

(Section C questions are printed on a separate question-answer book.)

8.10 am – 9.55 am (1¼ hours)

This paper must be answered in English

INSTRUCTIONS FOR SECTIONS A AND B

1. After the announcement of the start of the examination, you should first write your Examination Number in the spaces provided on Pages 1 , 3 and 5 .
2. Attempt ALL questions in both sections. Write your answers in the spaces provided in this Question-Answer Book. Do not write in the margins. Answers written in the margins will not be marked.
3. Supplementary answer sheet is provided on Page 12 . Extra supplementary answer sheets will be supplied on request. Write your Examination Number on each sheet and put them **INSIDE** this book for questions in Sections A and B.
4. Unless otherwise specified, all working must be clearly shown.
5. Unless otherwise specified, numerical answers should be either exact or correct to 3 significant figures.
6. The diagrams in this paper are not necessarily drawn to scale.
7. No extra time will be given to candidates for writing the Examination Number after the ‘Time is up’ announcement.

**FORM 3
Sections A and B**

Examination Number		

	Marker's Use Only
Question No.	Marks
1 – 2	
3 – 4	
5 – 6	
7	
Section A Total	
8 – 9	
10 – 11	
12 – 13	
14	
15	
16	
Section B Total	

12. The following shows the results of a Mathematics test of a group of students, where grade A is the best grade while grade F is the worst grade. A student is randomly selected from the group.

Grade	A	B	C	D	E	F
No. of students	12	15	35	24	9	5

- (a) Find the probability that the selected student obtains grade A . (2 marks)
- (b) If the passing grade is D , find the probability that the selected student passes the test. (2 marks)

13. Nathan invested a sum of \$ P at 8 % p.a. with simple interest for two years. Keith invested the same amount of money for the same period of time at the same interest rate, but the interest was compounded yearly. The compound interest received by Keith was \$ 160 more than the simple interest received by Nathan.

- (a) Find the value of P . (2 marks)
- (b) If Desmond invested the same amount of money \$ P for two years at the same interest rate, but the interest was compounded quarterly, find, correct to the nearest cent, the total amount that Desmond would receive. (2 marks)

Answers written in the margins will not be marked.

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