F. 6 2021/22 FINAL EXAMINATION MATHEMATICS Compulsory Part PAPER 1

F. 6 2021/22 FINAL EXAMINATIONS

MATHEMATICS Compulsory Part PAPER 1

Question-Answer Book

(21/4 hours)

This paper must be answered in English

INSTRUCTIONS

- Write your Name, Class and Class Number in the spaces provided on Page 1.
- This paper consists of THREE sections, A(1), A(2) and B.
- Attempt ALL questions in this paper. 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.
- Graph paper and supplementary answer sheets will be supplied on request. Write your Name, Class and Class Number, mark the question number box on each sheet and staple them with this book.
- 5. Unless otherwise specified, all workings must be clearly shown.
- 6. Unless otherwise specified, numerical answers should be either exact or correct to 3 significant figures.
- 7. The diagrams in this paper are not necessarily drawn to scale.

Name		
Class	()

	Marker's Use Only	Examiner's Use Only
	Marker No.	Examiner No
Question No.	Marks	Marks
1–2		
3–4		
5–6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
Total		

F.6 Mathematics (CP) Paper 1 Final Examination (2021-22) $$ $$ $$

1.	Simplify $\frac{c^2 \sqrt{b}}{\left(c^{-3} \sqrt[4]{b}\right)^2}$ and express your answer with positive indices.	(3 marks)
2.	Make a the subject of the formula $b(2a+1) = \frac{2a}{3} - b$.	(3 marks)

3.	Facto	
	(a)	$2m^2 + 7mn - 30n^2$,
	(b)	$2m^2 + 7mn - 30n^2 + 15n - 6m.$
		(3 marks)
4.	(a)	Find the range of values of x which satisfy both $\frac{2(x-3)}{2} > \frac{x}{2} - 2$ and $3 - 2x < 8$.
4.	(a)	Find the range of values of x which satisfy both $\frac{2(x-3)}{5} > \frac{x}{2} - 2$ and $3 - 2x \le 8$.
4.	(a) (b)	Find the range of values of x which satisfy both $\frac{2(x-3)}{5} > \frac{x}{2} - 2$ and $3 - 2x \le 8$. How many integers satisfy both inequalities in (a)? (4 marks)
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
4.		
	(b)	
Answer	(b)	How many integers satisfy both inequalities in (a)? (4 marks)