

Centre number					Candidate number				
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## INSTRUCTIONS TO CANDIDATES

These instructions are the same on the Printed Answer Book and the Question Paper.

- The Question Paper will be found inside the Printed Answer Book.
- Write your name, centre number and candidate number in the spaces provided on the Printed Answer Book. Please write clearly and in capital letters.
- Write your answer to each question in the space provided in the Printed Answer **Book**. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.

## **INFORMATION FOR CANDIDATES**

This information is the same on the Printed Answer Book and the Question Paper.

- The number of marks is given in brackets [] at the end of each question or part question on the Question Paper.
- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is being used.
- The total number of marks for this paper is **72**.
- The Printed Answer Book consists of **12** pages. The Question Paper consists of **8** pages. Any blank pages are indicated.



Section A (36 marks)

1 (i)	
1 (ii)	

2 (i)	
2 (ii)	
2 (iii)	
3(i)	
3 (ii)	

3 (iii)	
2 ()	
3 (iv)	
4(i)	
<b>+</b> (I)	

4 (ii)	

5(i)	
= ()	
5(ii)	
5(iii)	

6 (i)	
6 (ii)	

6 (iv)	
6(v)	
6 (vi)	
0(VI)	

# PLEASE DO NOT WRITE IN THIS SPACE

7(i)(A)	
7(i)(B)	
<i>(</i> <b>()</b> ( <i>D</i> )	
7(i)(C)	
7 (ii)	

7 (iii)(A)	
7 (iii) (B)	
7 (iv)	

### ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).



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