

Tuesday 19 June 2018 – Afternoon

AS GCE MATHEMATICS (MEI)

4776/01 Numerical Methods

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

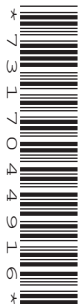
OCR supplied materials:

- Question Paper 4776/01 (inserted)
- MEI Examination Formulae and Tables (MF2)

Other materials required:

- Scientific or graphical calculator

Duration: 1 hour 30 minutes



Candidate forename		Candidate surname	
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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, 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 barcodes.
- 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 **16** pages. The Question Paper consists of **8** pages. Any blank pages are indicated.

Section A (36 marks)**1**

2(i)	
2(ii)	
2(iii)	
2(iv)	

2 (v)	
3 (i)	
3 (ii)	

3 (iii)	
3 (iv)	

4(i)	
	4(ii)

4(iii)	
4(iv)	

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

Section B (36 marks)

6(i)	
6(ii)	

6 (iii)(A)	
6 (iii)(B)	

6(iv)	
	7(i)

[illegible]

7(iii)	
	7(iv)

7(v)																								
<table><tr><td>r</td><td>x_r</td><td>$x_{r+1} - x_r$</td><td>$\frac{x_{r+2} - x_{r+1}}{x_{r+1} - x_r}$</td></tr><tr><td>0</td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td></tr></table>	r	x_r	$x_{r+1} - x_r$	$\frac{x_{r+2} - x_{r+1}}{x_{r+1} - x_r}$	0				1				2				3				4			
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0																								
1																								
2																								
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4																								
7(vi)																								

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).

[illegible]

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