



# **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			
Centre number				Candidate nu	ımber		

### **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)	
- 40	
2 (ii)	
2 (iii)	
2 (iv)	

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

3 (iii)	
2 (:)	
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)	

7 (ii)	

7(iii)	
7 (iv)	

7 (v)	
	$\begin{array}{ c c c c c }\hline r & x_r & x_{r+1} - x_r & \frac{x_{r+2} - x_{r+1}}{x_{r+1} - x_r} \end{array}$
	0
	1
	2
	3
7(1)	
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).



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