

Wednesday 16 May 2012 – Morning

A2 GCE MATHEMATICS (MEI)

4758/01 Differential Equations

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper 4758/01 (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 number	

INSTRUCTIONS TO CANDIDATES

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

- The Question Paper will be found in the centre of 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.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- 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 any **three** 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.
- The acceleration due to gravity is denoted by $g\text{ m s}^{-2}$. Unless otherwise instructed, when a numerical value is needed, use $g = 9.8$.

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 **4** pages. Any blank pages are indicated.

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1(ii)	
	1(iii)

1(iv)

(answer space continued overleaf)

2(i)	(continued)
2(ii)	
2(iii)	

2(iii)	(continued)
2(iv)	
2(v)	
	(answer space continued overleaf)

2(v)	(continued)
3(i)	

3(i)	(continued)
3(ii)	

3(iii)	
	3(iv)

3(iv)	(continued)
3(v)	
4(i)	
(answer space continued overleaf)	

4(i) (continued)

[illegible]

4(ii)	
	4(iii)

4(iii)	(continued)
4(iv)	
	(answer space continued overleaf)

4(iv)	(continued)

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