

A Level Mathematics B (MEI)

H640/01 Pure Mathematics and Mechanics Printed Answer Booklet

Wednesday 6 June 2018 – Morning Time allowed: 2 hours



You must have: • Question Paper H640/01 (inserted)

You may use:

· a scientific or graphical calculator



First name	
Last name	
Centre number	Candidate number

INSTRUCTIONS

- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer all the questions.
- Write your answer to each question in the space provided in the Printed Answer Booklet. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- 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.
- The acceleration due to gravity is denoted by gms^{-2} . Unless otherwise instructed, when a numerical value is needed, use g = 9.8.

INFORMATION

- 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 used. You should communicate your method with correct reasoning.
- The Printed Answer Booklet consists of 20 pages. The Question Paper consists of 12 pages.

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Section A (23 marks)

1	
1	
2	
<u> </u>	

3	
4(i)	
4(ii)	
1	

3

5(i)	
5(ii)	

6(i)	
6(ii)	

6(iii)	

Section B (77 marks)

7(i)	
7(ii)	

8(i)	
8(ii)	

9(i)	
9(ii)	

9(iii)	
10	
	(answer space continued on next page)
	(

10 (continued)	

11(i)	
11(ii)	

12(i)	
12(ii) (A)	
12(ii) (<i>B</i>)	

12(iii)	
12(iv)	
	(answer space continued on next page)
	(answer space continued on next page)

12(iv)	(continued)
13(i)	

13(ii)	
13(iii)	
13(iii)	

13(iv)	
13(v)	

14(i)	
14(ii)	
14(iii)	

14(vi)	
14(vii)	

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