

Wednesday 07 October 2020 – Afternoon

A Level Mathematics B (MEI)

H640/01 Pure Mathematics and Mechanics

Printed Answer Booklet

Time allowed: 2 hours

You must have:

- Question Paper H640/01 (inside this document)
- · a scientific or graphical calculator



Please write clea	arly in b	lack ink.	Do no	ot writ	e in the barcodes.		
Centre number					Candidate number		
First name(s)							
Last name							

INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the Printed Answer
 Booklet. If you need extra space use the lined pages at the end of the Printed Answer
 Booklet. The question numbers must be clearly shown.
- · Answer all the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give your final answers to a degree of accuracy that is appropriate to the context.
- The acceleration due to gravity is denoted by $g \, \text{m} \, \text{s}^{-2}$. When a numerical value is needed use g = 9.8 unless a different value is specified in the question.

INFORMATION

This document has 20 pages.

ADVICE

Read each question carefully before you start your answer.



Section A (22 marks)

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4	

5(b)	

5(c)	
6(a)	
	R N ♠
	AB
6(b)	

Section B (78 marks)

7(a)	
70)	
7(b)	
	l .

8(a)	
0.0	
8(b)	
9(-)	
8(c)	

9	

10(a)	
10(b)	
10(0)	

10(c)	
11(a)	
11(b)	

11(c)	
11(d)	

12(a)	
12(b)	

12(c)	

13(a)	
12.0	
13(b)	

13(c)	

14(a)	
14(b)(i)	
14(b)(ii)	
14(b)(iii)	

14(c)	
14(d)	
11(4)	

15(a)	
15(b)	
15(c)	
	(answer space continued on next page)

15(c)	(continued)

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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