

A Level Mathematics B (MEI)

H640/01 Pure Mathematics and Mechanics

Printed Answer Booklet

Date – Morning/Afternoon

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 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

- 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.

Section A (20 marks)

1	
2	

Specimen

3

4 (a)

Specimen

4 (b)

5 (a)



Fig. 5

5 (b)

Section B (80 marks)

6 (a)	
6 (b)	
6 (c)	
7 (a)	

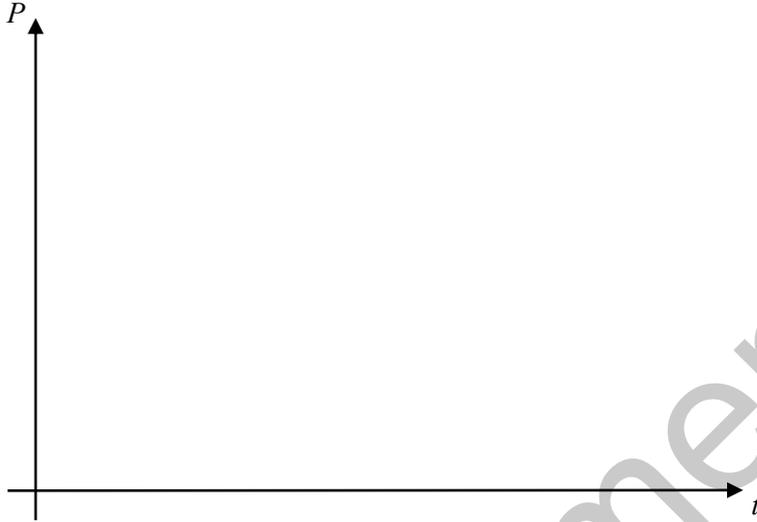
Specimen

8

Specimen

9 (a)(i)	
9 (a)(ii)	
9 (b)	

10 (a)
(i)



10 (a)
(ii)

10 (b)

10 (c)	
10 (d)	

Specimen

10 (e)

Specimen

11 (a)	

Specimen

11 (b)	
12 (a)	
12 (b)	

Specimen

12 (c)	

Specimen

14 (a)	

Specimen

14 (b)

Specimen

15

Specimen

Specimen

Specimen

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