OCR
Oxford Cambridge and RSA

Wednesday 5 June 2019 – Morning

A Level Mathematics B (MEI)

H640/01 Pure Mathematics and Mechanics

Printed Answer Booklet

Time allowed: 2 hours

7693498876

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

You may use:
- a scientific or graphical calculator

H640 01

Please write clearly in black ink. **Do not write in the barcodes.**

Centre number | | | | | | Candidate number | | | | |

First name(s) _____

Last name _____

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.
- Answer **all** the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.** If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- 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 $g\,\mathrm{m\,s^{-2}}$. 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 **8** pages.

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Section A (25 marks)

1

2

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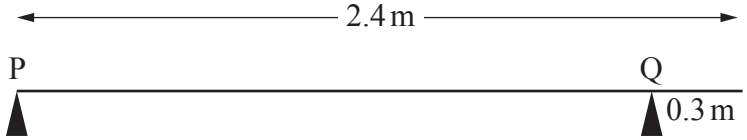
3(a)

3(b)(i)

3(b)(ii)

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4



5

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6(a)

6(b)

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Section B (75 marks)

7

8(a)

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8(b)

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9(a)

9(b)

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10(a)

10(b)

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11(a)

11(b)

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12(a)

12(b)

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13(a)

13(b)

13(c)

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14(a)

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14(b)

14(c)

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15(a)

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15(b)	
15(c)	
15(d)	

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16(a)

16(b)

16(c)

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16(d)

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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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