OCR
Oxford Cambridge and RSA

Wednesday 15 May 2019 – Morning

AS Level Mathematics B (MEI)

H630/01 Pure Mathematics and Mechanics

Printed Answer Booklet

Time allowed: 1 hour 30 minutes

You must have:
- Question Paper H630/01 (inserted)

You may use:
- a scientific or graphical calculator

* H 6 3 0 0 1 *

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.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- 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 **12** pages. The Question Paper consists of **8** pages.

1	
2	

3

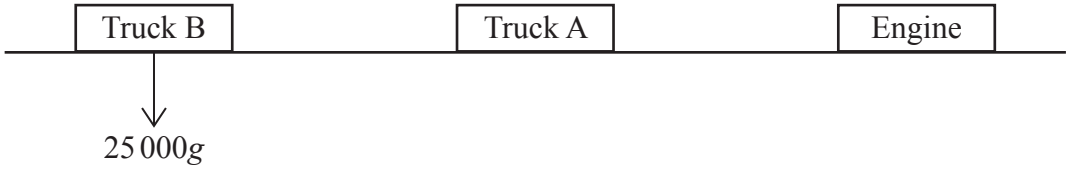
4 (a)

4 (b)

5 (a)

5 (b)

6 (a)



Force diagram

6 (b)

6 (c)

7 (a)

7 (b)

7 (c)

8

(answer space continued on next page)

8	**(continued)**

9 (a)

9 (b)

9 (c)

10 (a)

10 (b)

11 (a)

11 (b)(i)

11 (b)(ii)

11 (c)

11 (d)

11 (e)