

FOR OFFICIAL USE



National
Qualifications
2022 MODIFIED

Mark

X802/77/01

**Mathematics of Mechanics
Answer booklet**

WEDNESDAY, 11 MAY

1:00 PM – 3:50 PM



* X 8 0 2 7 7 0 1 *

Fill in these boxes and read what is printed below.

Full name of centre

Town

Forename(s)

Surname

Number of seat

Date of birth

Day

Month

Year

Scottish candidate number

Write your answers clearly in the spaces provided in the answer booklet. The size of the space provided for an answer is not an indication of how much to write. You do not need to use all the space.

Additional space for answers is provided at the end of the answer booklet. If you use this space you must clearly identify the question number you are attempting.

Use **blue** or **black** ink.

Before leaving the examination room you must give this booklet to the Invigilator; if you do not, you may lose all the marks for this paper.



* X 8 0 2 7 7 0 1 0 1 *

QUESTION
NUMBER

1.(a)

DO NOT
WRITE IN
THIS
MARGIN

1.(b)



* X 8 0 2 7 7 0 1 0 2 *

QUESTION
NUMBER

2.

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 0 3 *

QUESTION
NUMBER

3.(a)

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 0 4 *

QUESTION
NUMBER

3.(b)

DO NOT
WRITE IN
THIS
MARGIN



QUESTION
NUMBER

4.(a)

DO NOT
WRITE IN
THIS
MARGIN

4.(b)



* X 8 0 2 7 7 0 1 0 6 *

QUESTION
NUMBER

5.

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 0 7 *

QUESTION
NUMBER

6.(a)

DO NOT
WRITE IN
THIS
MARGIN

6.(b)



* X 8 0 2 7 7 0 1 0 8 *

QUESTION
NUMBER

7.

DO NOT
WRITE IN
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MARGIN



* X 8 0 2 7 7 0 1 0 9 *

QUESTION
NUMBER

8.

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 1 0 *

QUESTION
NUMBER

9.

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 1 1 *

QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

10.(a)

10.(b)



* X 8 0 2 7 7 0 1 1 2 *

QUESTION
NUMBER

10.(c)

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 1 3 *

QUESTION
NUMBER

11.

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 1 4 *

QUESTION
NUMBER

12.(a)

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 1 5 *

QUESTION
NUMBER

12.(b)

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 1 6 *

QUESTION
NUMBER

13.(a)

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 1 7 *

QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

13.(b)

14.(a)



QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

14.(b)
(i)

14.(b)
(ii)



QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

15.(a)
(i)

15.(a)
(ii)



QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

15.(b)
(i)

15.(b)
(ii)



QUESTION
NUMBER

16.(a)

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 2 2 *

QUESTION
NUMBER

16.(b)

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 2 3 *

QUESTION
NUMBER

16.(c)

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 2 4 *

ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 2 5 *



ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 2 6 *



ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
THIS
MARGIN



* X 8 0 2 7 7 0 1 2 7 *

