

FOR OFFICIAL USE



National
Qualifications
2026

Mark

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X802/77/01

**Mathematics of Mechanics
Answer booklet**

TUESDAY, 26 MAY

1:00 PM – 4:00 PM



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.

You must leave this booklet on your desk; if you do not, you could lose all the marks for this paper.



[BLANK PAGE]

DO NOT WRITE ON THIS PAGE



QUESTION
NUMBER

1.(a)

DO NOT
WRITE IN
THIS
MARGIN

1.(b)



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

QUESTION
NUMBER

2.

DO NOT
WRITE IN
THIS
MARGIN

3.



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

QUESTION
NUMBER

4.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

5.(a)

DO NOT
WRITE IN
THIS
MARGIN

5.(b)



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

QUESTION
NUMBER

6.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

7.(a)

DO NOT
WRITE IN
THIS
MARGIN

7.(b)



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

QUESTION
NUMBER

8.(a)

DO NOT
WRITE IN
THIS
MARGIN

8.(b)



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

QUESTION
NUMBER

9.(a)

DO NOT
WRITE IN
THIS
MARGIN

9.(b)



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

QUESTION
NUMBER

DO NOT
WRITE IN
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MARGIN

10.(a)

10.(b)

10.(c)



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

QUESTION
NUMBER

11.(a)

DO NOT
WRITE IN
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MARGIN

11.(b)



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

QUESTION
NUMBER

12.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

13.(a)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

13.(b)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

14.(a)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

14.(b)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

15.

DO NOT
WRITE IN
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MARGIN



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

QUESTION
NUMBER

16.(a)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

16.(b)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

17.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

18.(a)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

18.(b)

DO NOT
WRITE IN
THIS
MARGIN

18.(c)



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

QUESTION
NUMBER

19.(a)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

19.(b)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

20.(a)

DO NOT
WRITE IN
THIS
MARGIN

20.(b)
(i)

20.(b)
(ii)



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

QUESTION
NUMBER

20.(c)

DO NOT
WRITE IN
THIS
MARGIN



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

ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
THIS
MARGIN



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

ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
THIS
MARGIN



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

ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
THIS
MARGIN



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

ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
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MARGIN



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

