

FOR OFFICIAL USE



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National
Qualifications
2023 MODIFIED

Mark

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X802/77/01

**Mathematics of Mechanics
Answer booklet**

TUESDAY, 9 MAY
1:00 PM – 3:50 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.

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.



QUESTION
NUMBER

1.

DO NOT
WRITE IN
THIS
MARGIN

2.



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

QUESTION
NUMBER

3.(a)

DO NOT
WRITE IN
THIS
MARGIN

3.(b)



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

QUESTION
NUMBER

4.(a)

DO NOT
WRITE IN
THIS
MARGIN

4.(b)



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

QUESTION
NUMBER

5.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

6.(a)

DO NOT
WRITE IN
THIS
MARGIN

6.(b)



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

QUESTION
NUMBER

7.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

8.(a)

DO NOT
WRITE IN
THIS
MARGIN

8.(b)



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

QUESTION
NUMBER

9.(a)

DO NOT
WRITE IN
THIS
MARGIN

9.(b)



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

QUESTION
NUMBER

10.(a)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

10.(b)

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

11.(a)

11.(b)



QUESTION
NUMBER

12.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

13.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

14.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

15.

DO NOT
WRITE IN
THIS
MARGIN



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

QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

16.(a)

16.(b)



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

QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

17.(a)

17.(b)



QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

18.(a)

18.(b)
(i)



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

DO NOT
WRITE IN
THIS
MARGIN

QUESTION
NUMBER

18.(b)
(i)
(cont)

18.(b)
(ii)



QUESTION
NUMBER

DO NOT
WRITE IN
THIS
MARGIN

19.(a)

19.(b)



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



ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
THIS
MARGIN



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



ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

DO NOT
WRITE IN
THIS
MARGIN



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



ENTER
NUMBER
OF
QUESTION

ADDITIONAL SPACE FOR ANSWERS

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 *

