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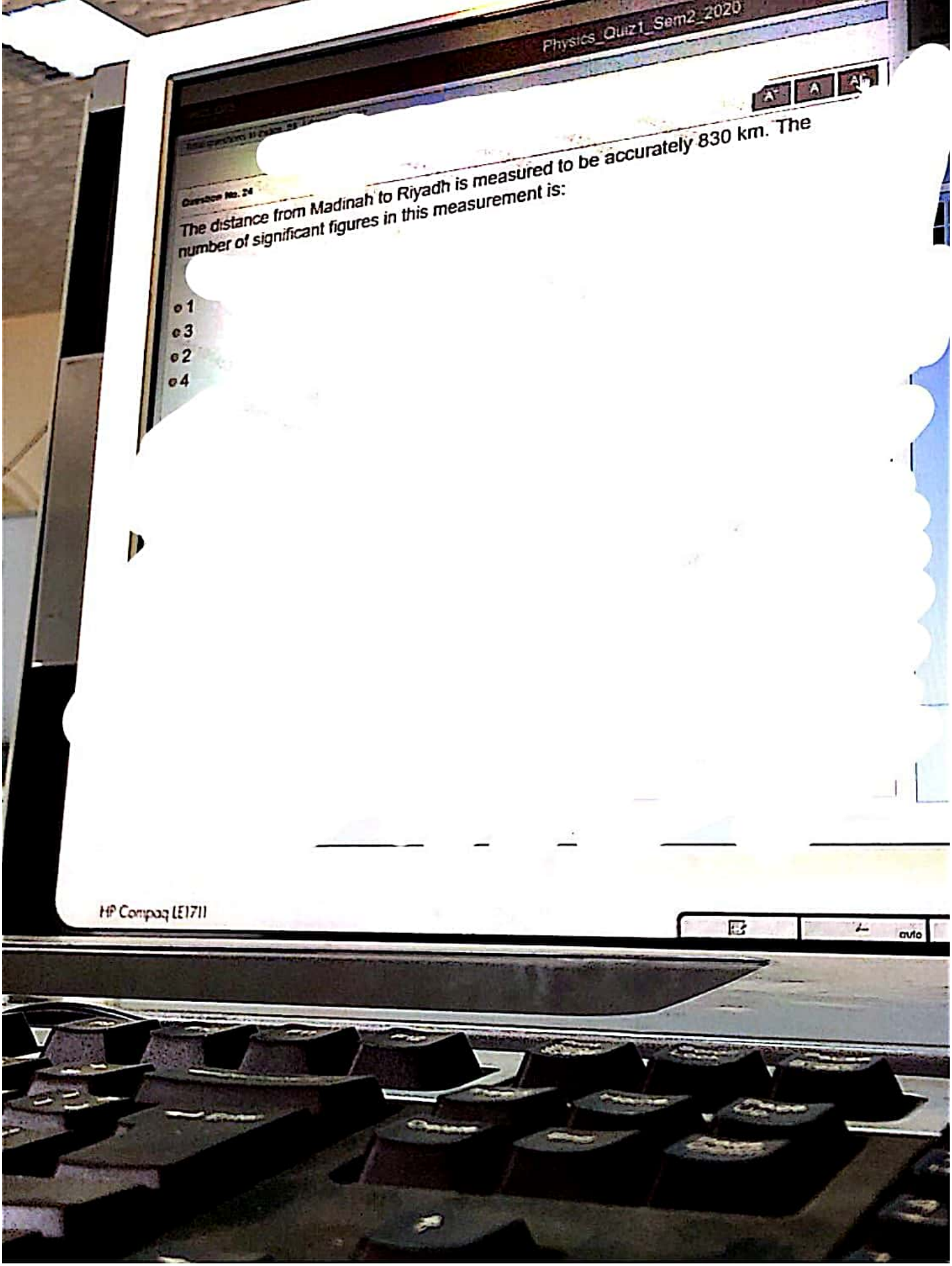

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MKCL OES

Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 12

A- A A+

Question No. 25

An airplane of velocity (v1 = 800 km/h, north) faces a wind of velocity (v2 = 60 km/h, west) The resultant velocity of the plane is·

- (802 km/h, south of west)
- (740 km/h, south of west)
- (802 km/h, north of west)
- (740 km/h, north of west)

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MKCL OES

Total questions in exam: 25 | Answered: 8

A- A A+

Question No. 16

Taking significant figures into account, the product 1.044 × 10.0 × 0.16 × 0.130 x 0.7, is correctly written as:

- 0.1520064
- 0.2
- 0.15
- 0.15201

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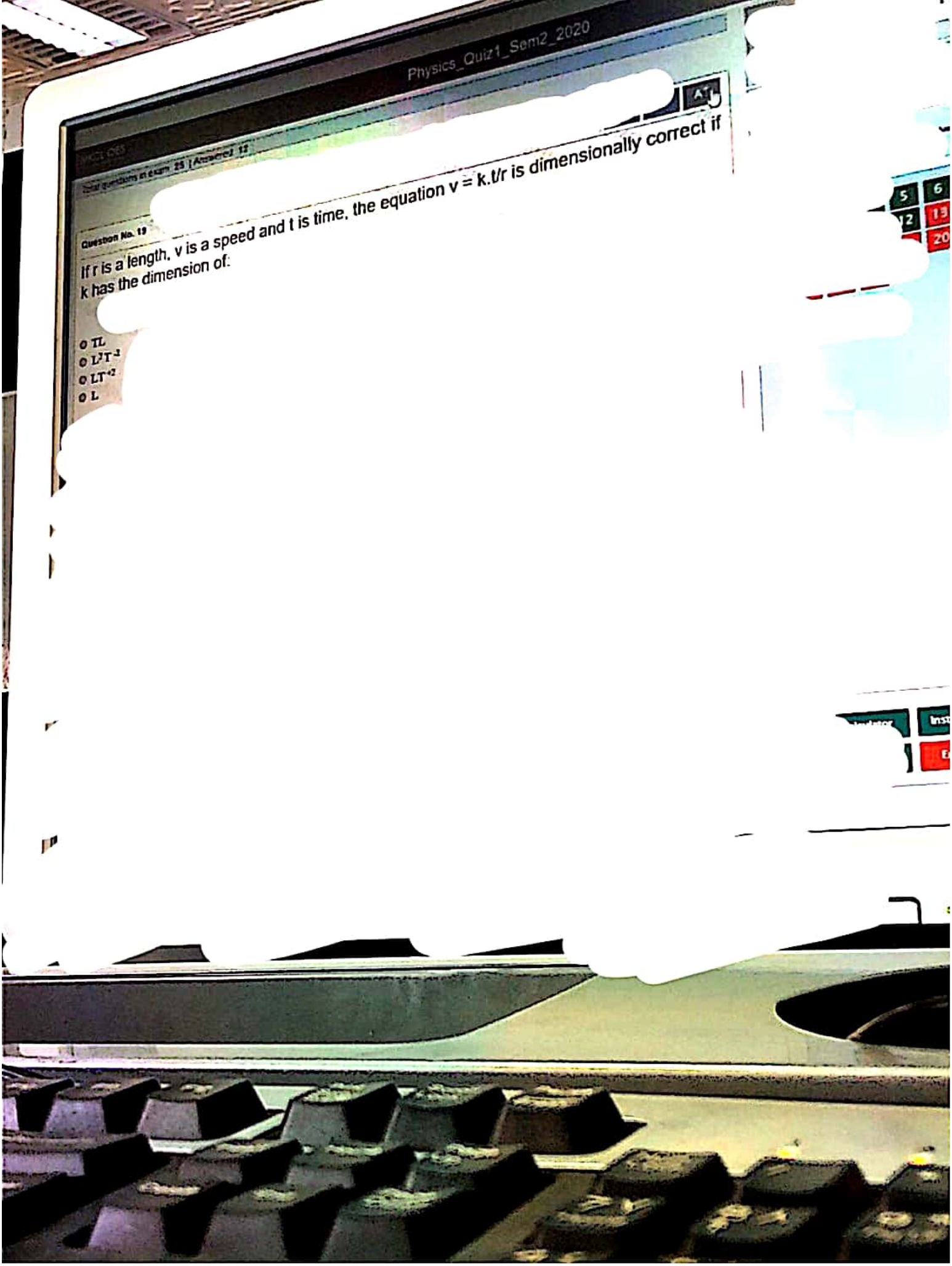

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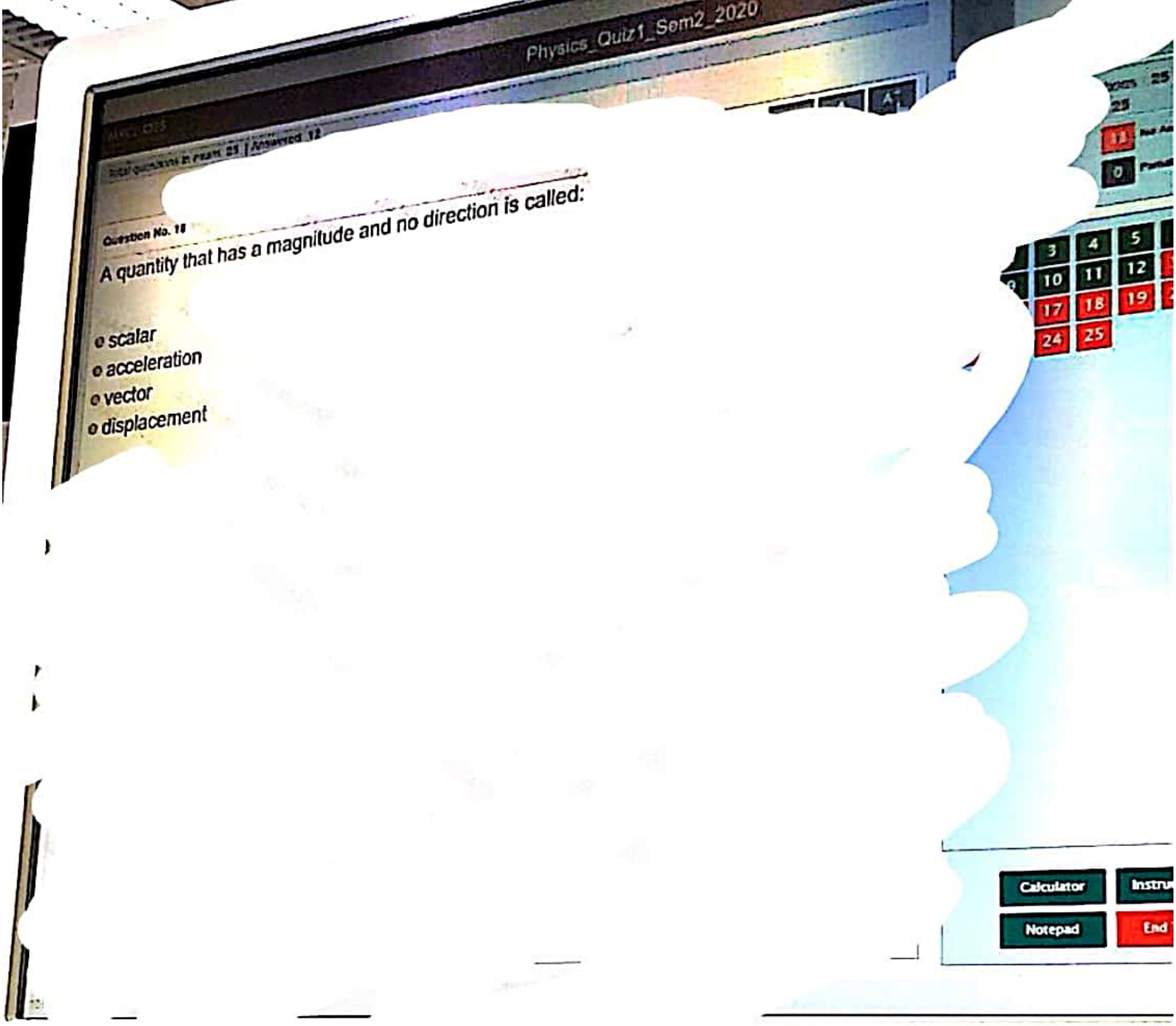

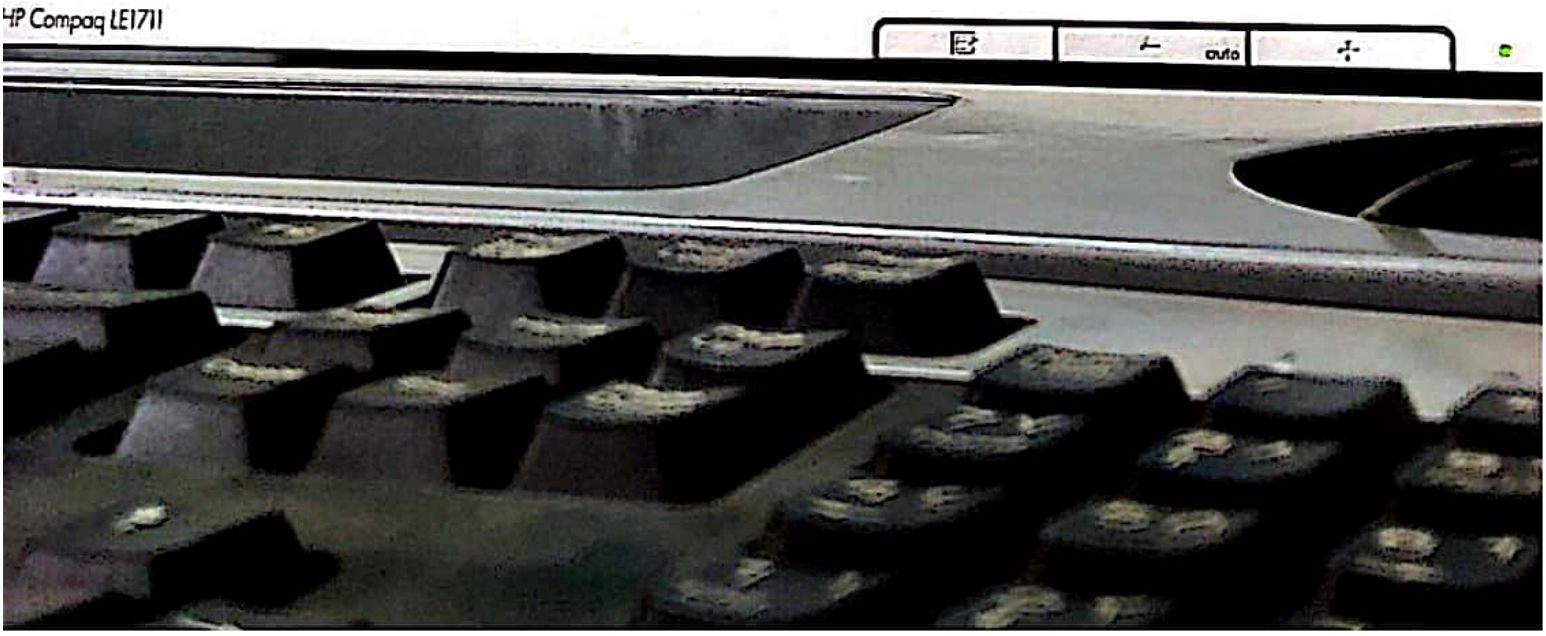

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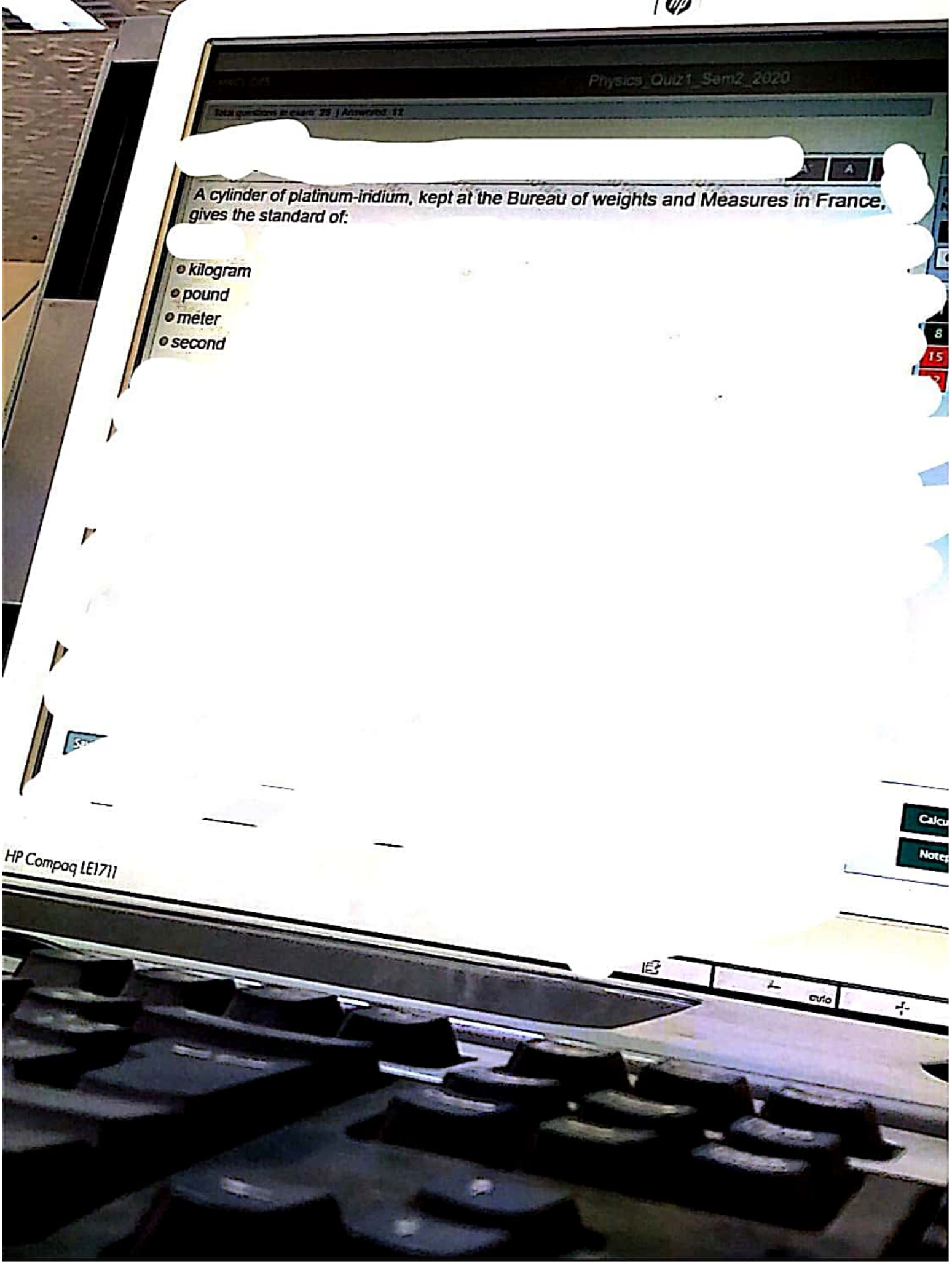

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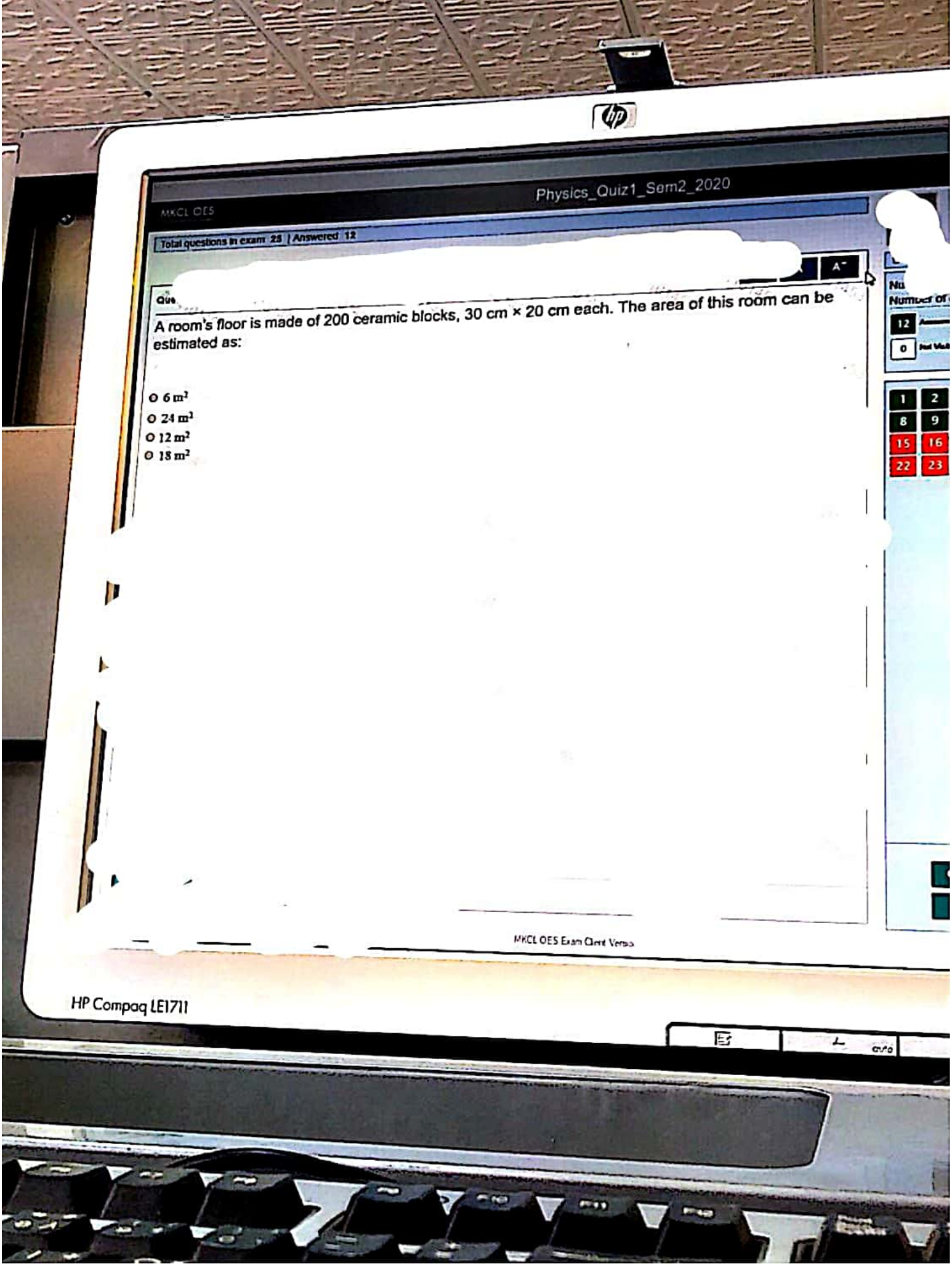

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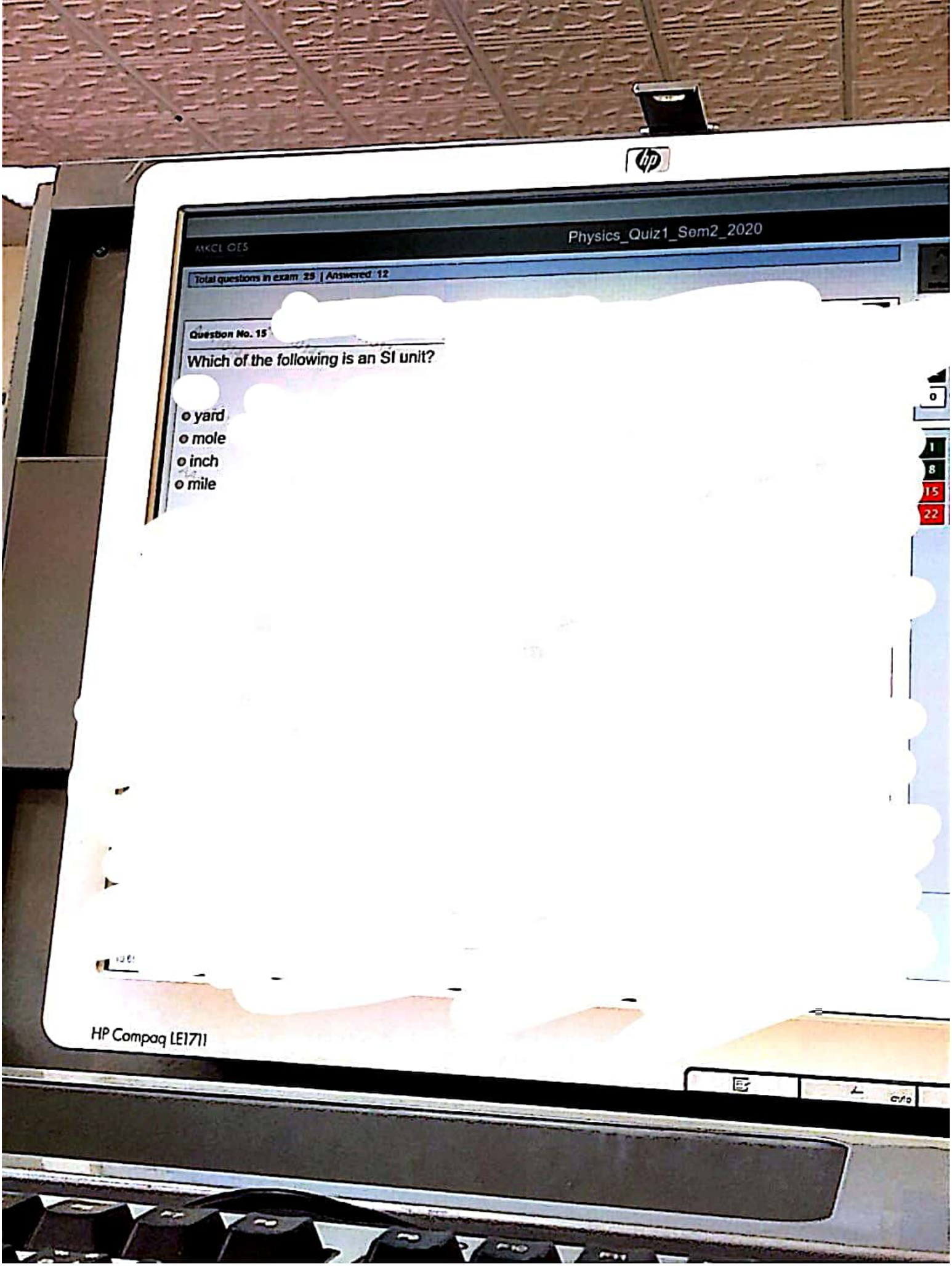

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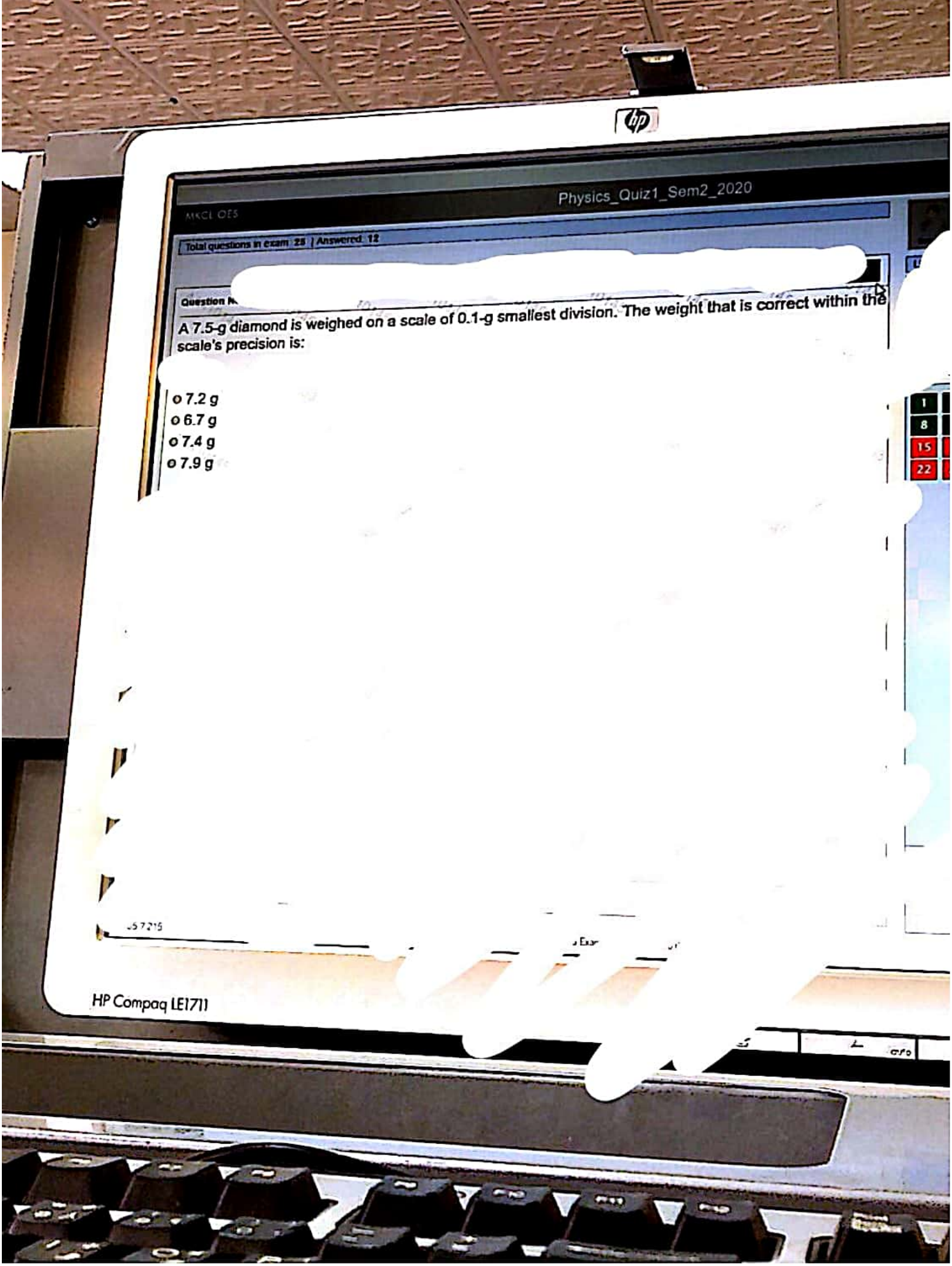

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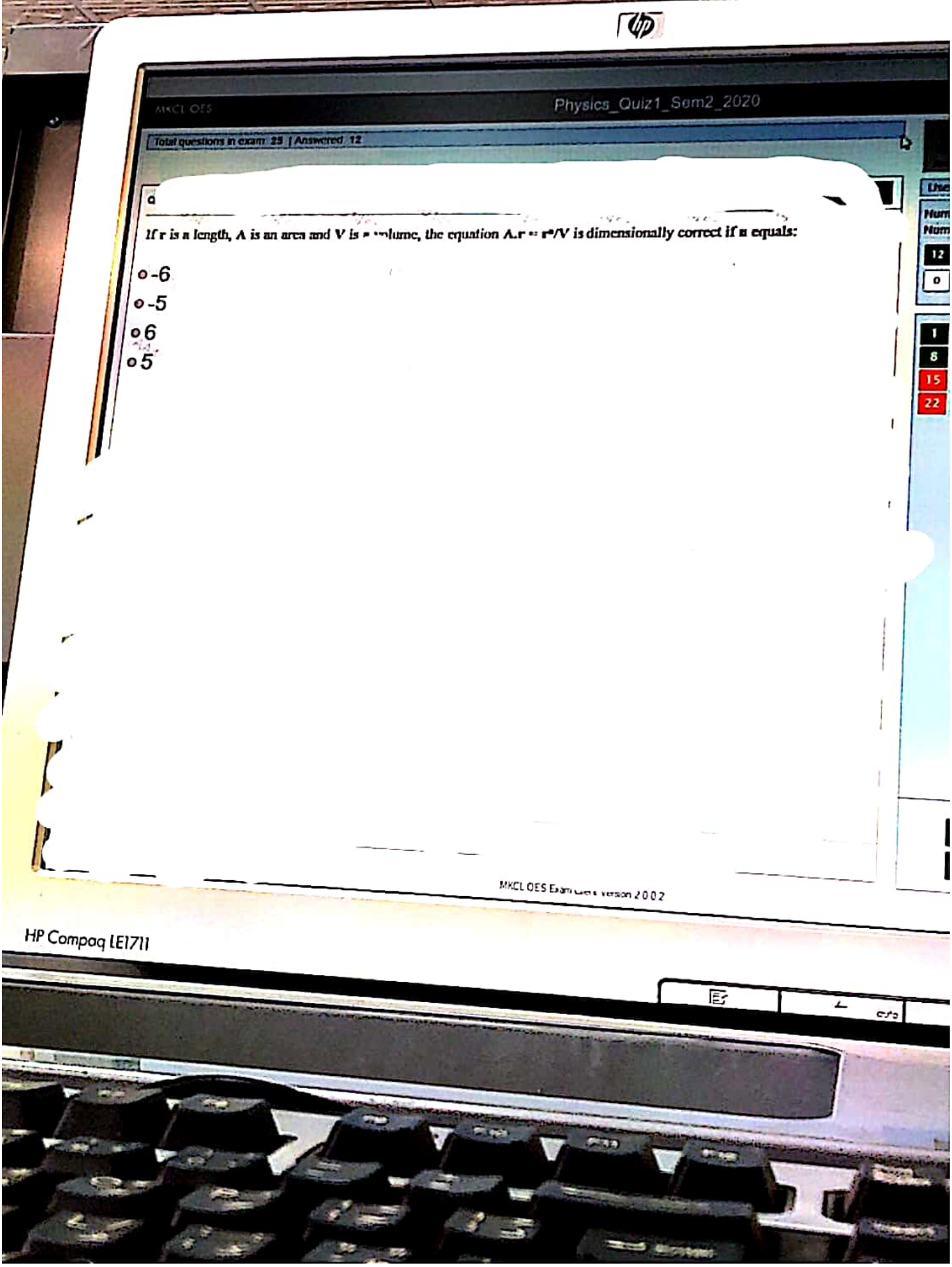

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If one light-year (سنة ضوئية) is the distance light travels in 1 year, one year ≈ 3×10^7 s, and the speed of light in space is (3×10^8 m/s), one light-year is approximately: (distance = speed × time)

- 10^{16} m
- 10^{14} m
- 10^{10} m
- 10^{12} m

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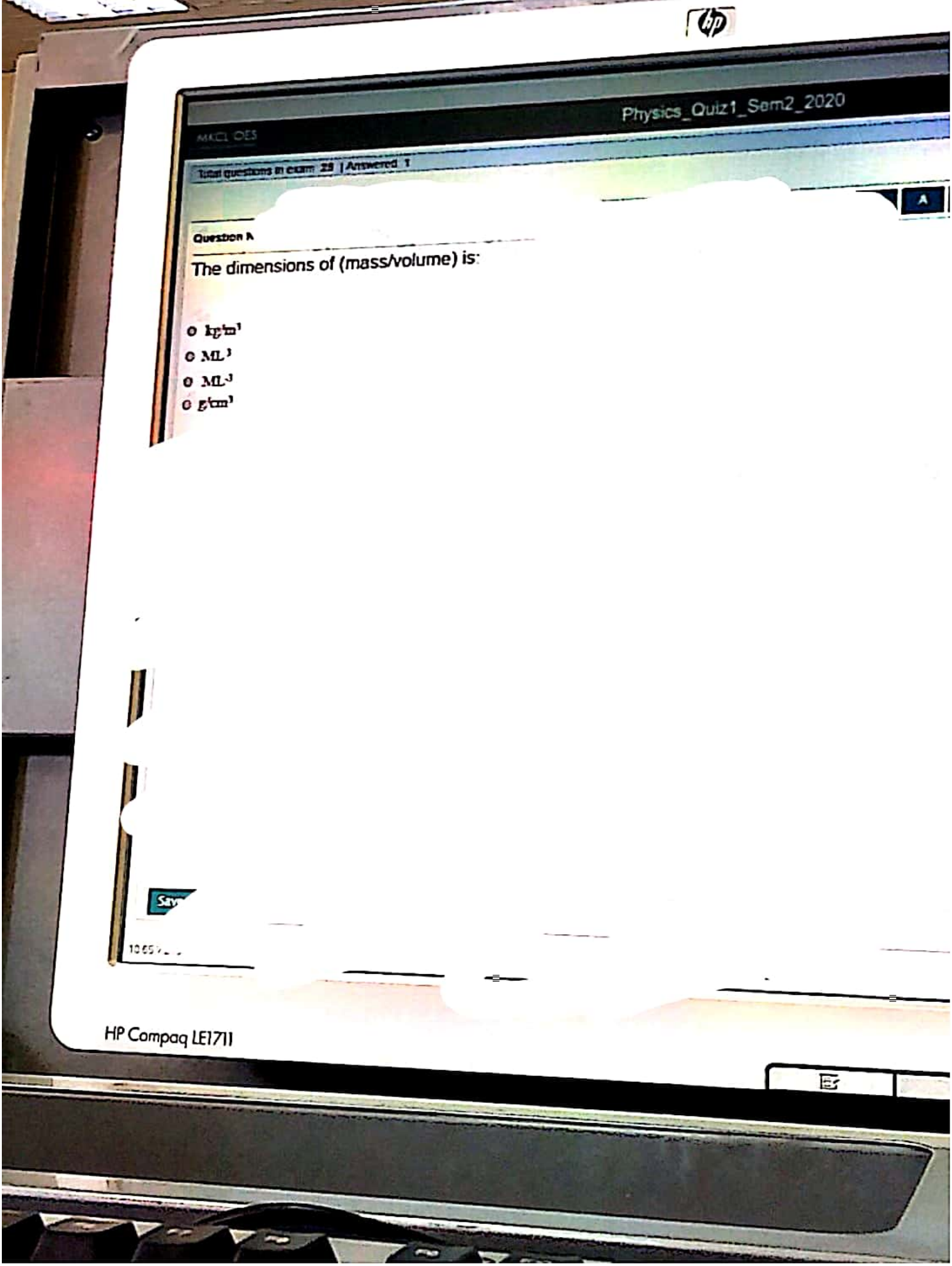

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MKCL OES

Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 20

Question No. 24

A⁻ A A⁺

The thickness of a 1200-page book is about 1.9 inches. The thickness of a single sheet of this book can be estimated as:

- 0.04 mm
- 0.01 mm
- 0.8 mm
- 0.08 mm

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MKCL OES

Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 20

Question No. 21

A⁻ A A⁺

If one light-year (سنة ضوئية) is the distance light travels in 1 year, one year ≈ 3×10^7 s, and the speed of light in space is (3×10^8 m/s), one light-year is approximately: (distance = speed × time)

- 10^{16} m
- 10^{14} m
- 10^{10} m
- 10^{12} m

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Total questions in exam: 25 | Answered: 0

Question No. 2

If the diameter of a human hair is 110 micrometers, this equals to:
(Hint: 1 mm = 1000 micrometers)

- 1.1 mm
- 0.11 mm
- 0.011 mm
- 0.0011 mm

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MKCL OES

Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 20

Question No. 18

A⁻ A A⁺

If r is a length, A is an area and V is a volume, the equation $A.r^2 = r^n/V$ is dimensionally correct if n equals:

- 7
- 5
- -5
- -7

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MKCL OES

Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 20

Question No. 16

Using an instrument with cm and mm divisions to measure a certain length, we get a value of 1450.2 cm. Our measurement can then be written as:

- L = 1450.2 ± 0.1 cm
- L = 1450.2 ± 0.2 cm
- L = 1450.2 ± 1.0 cm
- L = 1450.2 ± 0.01 cm

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Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 20

Question No. 8

A lake with approximately circular surface has an average radius r = 0.5 km and average depth h = 10 m. The volume $V = \pi r^2 h$ of this lake in liters (L) is approximately:

- 10^{10} L
- 10^{12} L
- 10^{5} L
- 10^{7} L

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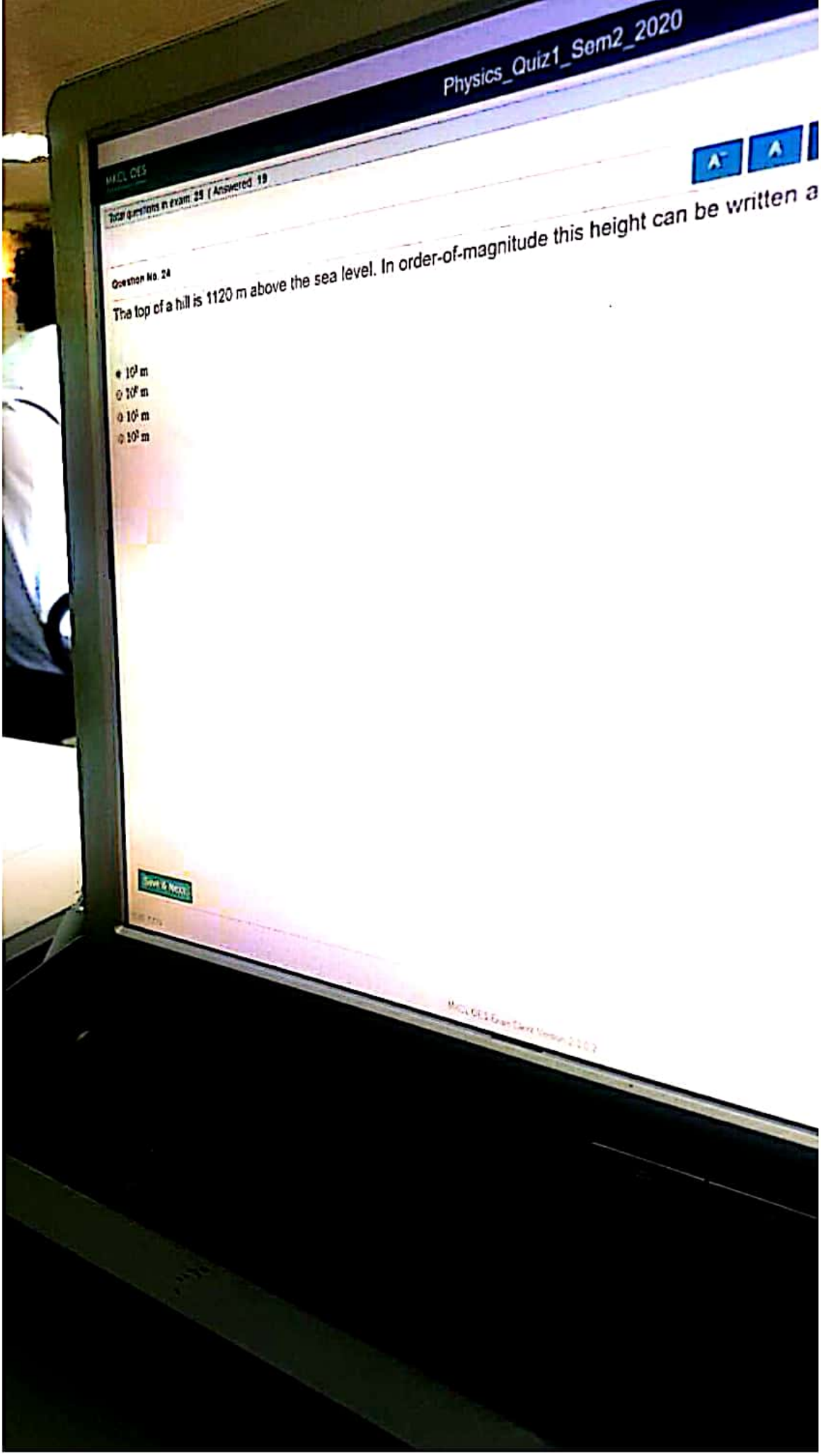

Total questions in exam: 25 | Answered: 24

Question No. 19

50 µL equals (1 micro (µ) = 10^{-6}):

- 0.000005 L
- 0.00005 L
- 0.005 L
- 0.0005 L

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MKCL OES

Total questions in exam: 25 | Answered: 24

Question No. 20

The dimensions of (mass × speed/time) is:

- $M L^{-1} T^{-1}$
- $M L T^{-2}$
- $M L^{2} T^{-1}$
- $M L^{2} T^{-2}$

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MKCL OES

Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 15

Question No. 8

A lake with approximately circular surface has an average radius r = 0.5 km and average depth h = 10 m. The volume $V = \pi r^2 h$ of this lake in liters (L) is approximately:

- 10^{10} L
- 10^{12} L
- 10^{5} L
- 10^{7} L

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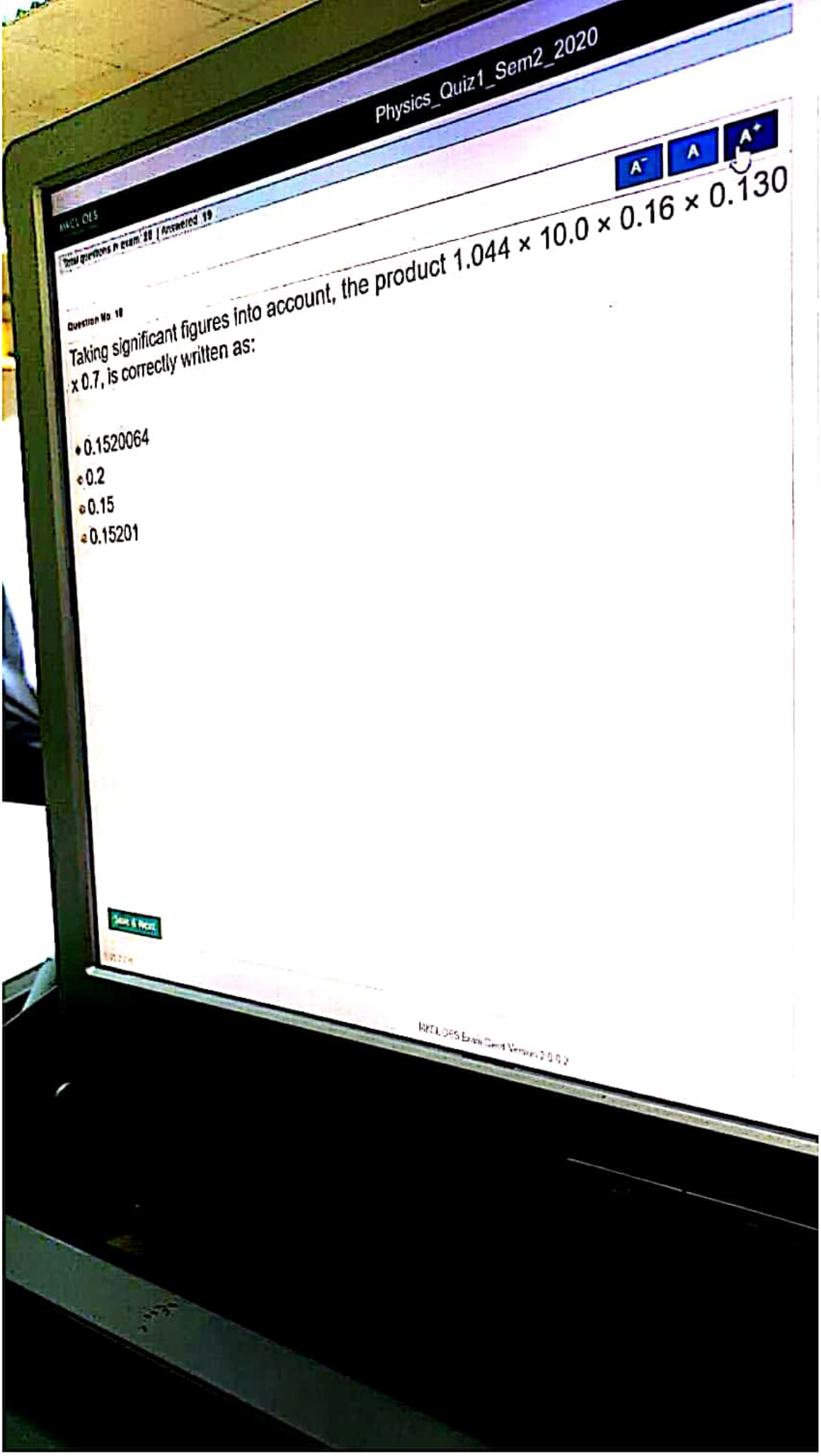

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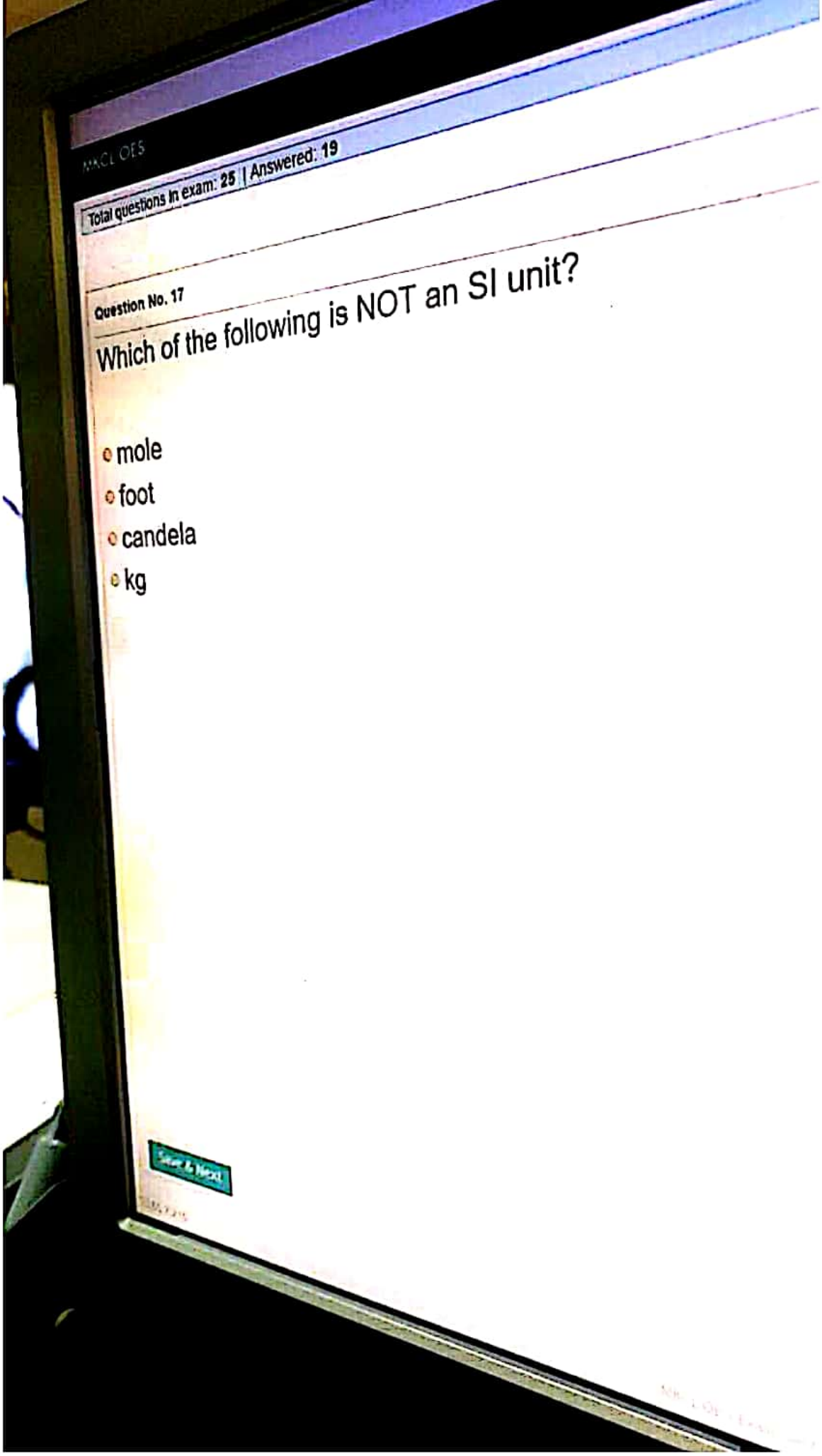

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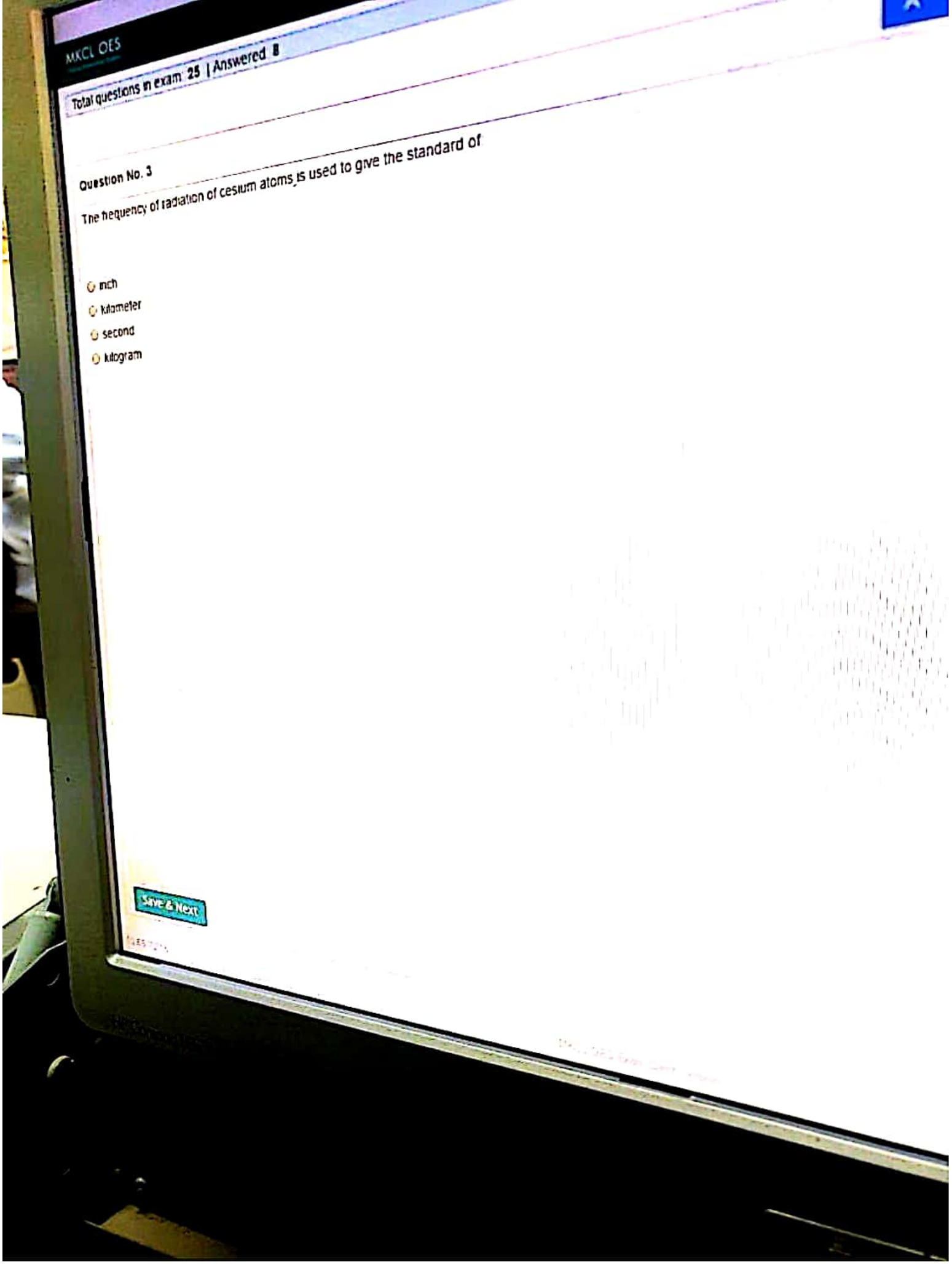

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MACLOES

Total questions in exam: 25 | Answered: 8

Question No. 15

A vector is represented by:

- an arrow
- a square
- a triangle
- a straight line

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Physics_Quiz1_Sem2_

MKCL OES

Total questions in exam: 25 | Answered: 8

A⁻ A A

Question No. 16

A lake with approximately circular surface has an average radius $r = 0.5\,km$ and average depth $h = 10\,m$. The volume $V = \pi r^2 h$ of this lake in liters (L) is approximately:

- 10^4 L
- 10^{12} L
- 10^{16} L
- 10^7 L

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MKCL OES

Total questions in exam: 25 | Answered: 8

Question No. 17

Which of the following is NOT an SI unit?

- mole
- foot
- candela
- kg

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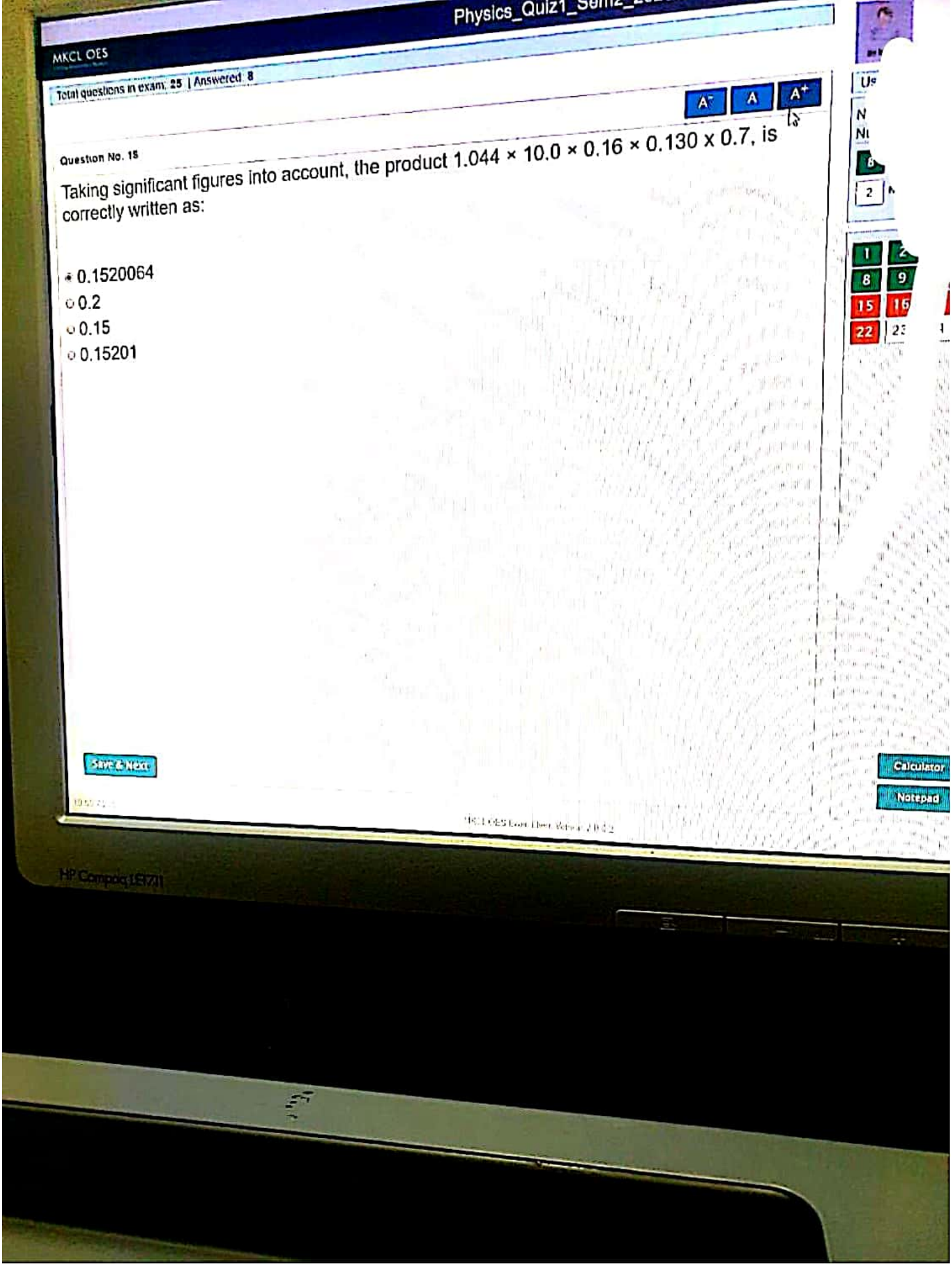

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MKCL OES

Total questions in exam: 25 | Answered: 8

Question No. 19

50 µL equals (1 micro (µ) $= 10^{-6}$):

- 0.000005 L
- 0.00005 L
- 0.005 L
- 0.0005 L

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MKCL OES

Total questions in exam: 25 | Answered: 8

Question No. 20

The dimensions of (mass × speed/time) is:

- $M L^{-1} T^{-1}$
- $M L T^{-2}$
- $M L^{2} T^{-1}$
- $M L^{2} T^{-2}$

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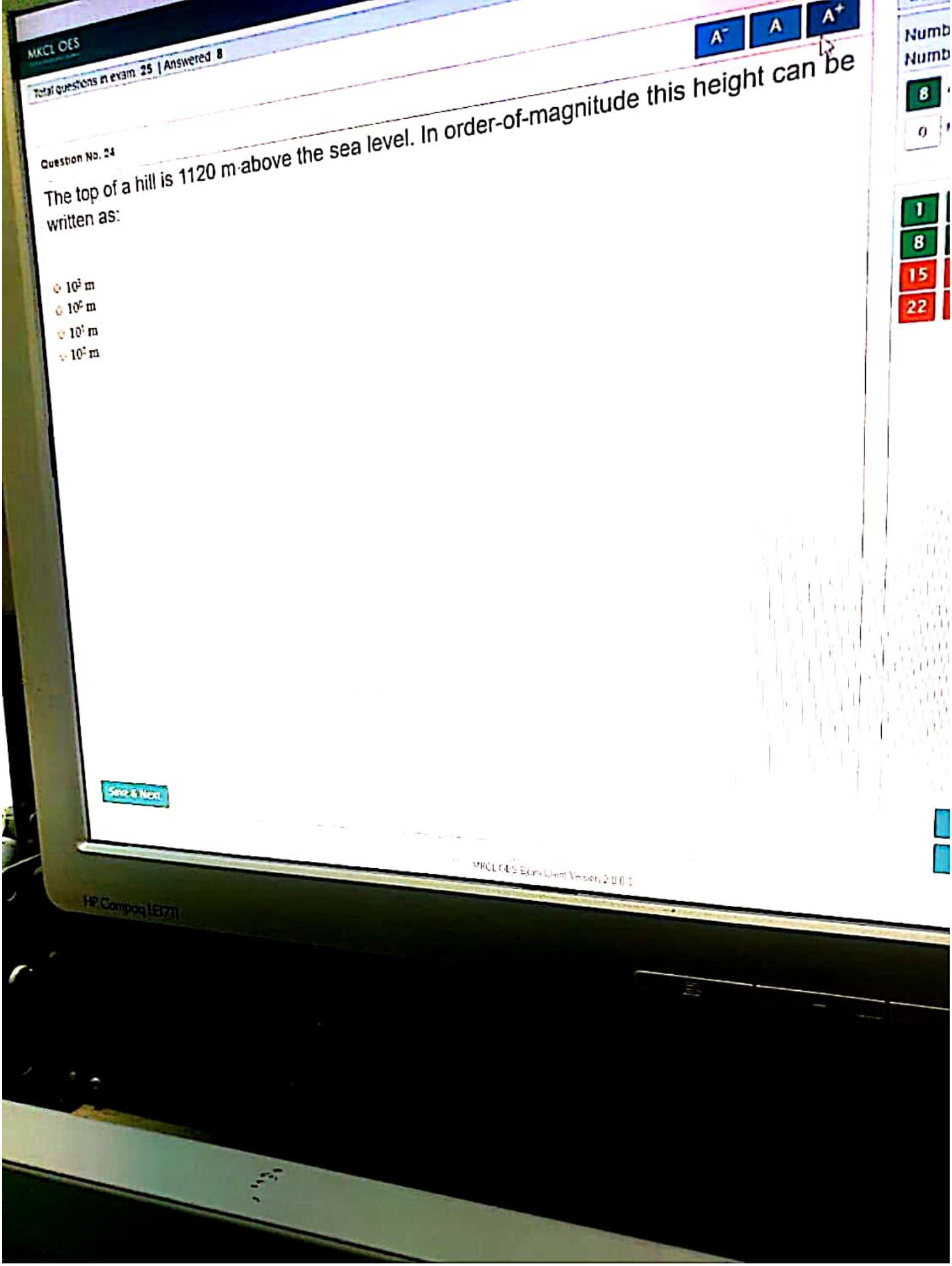

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Physics_Quiz1_

MKCL OES

Total questions in exam: 25 | Answered: 8

A⁻ A

Question No. 21

A train travelling in a straight line at an average speed of 150 km/h for 40 min covers a distance of:

- 3.75 km
- 225 km
- 150 km
- 100 km

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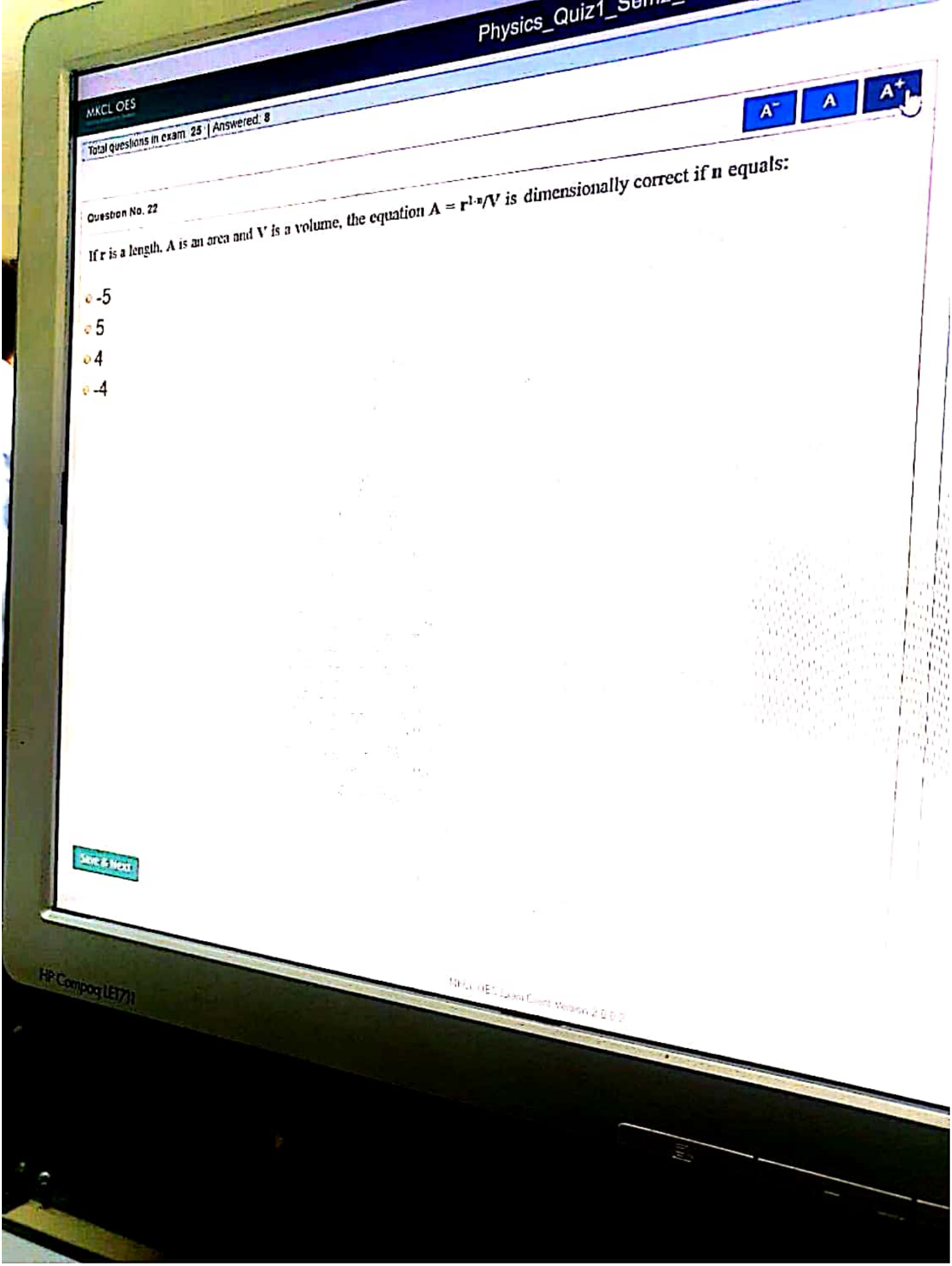

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MKCL OES

Total questions in exam: 25 | Answered: 8

Question No. 1

427 cm^2 to m^2: $(1\ m^2 = 10000\ cm^2)$

- (•) 0.0427 m^2
- ( ) 4.27 m^2
- ( ) 42.7 m^2
- ( ) 0.427 m^2

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MKCL OES

Total questions in exam: 25 | Answered: 8

A⁻

Question No. 25

A quantity that has a magnitude and no direction is called:

- scalar
- displacement
- acceleration
- vector

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Physics_Quiz1_

MKCL OES

Total questions in exam: 25 | Answered: 8

A- A

Question No. 21

A train travelling in a straight line at an average speed of 150 km/h for 40 min covers a distance of:

- 3.75 km
- 225 km
- 150 km
- 100 km

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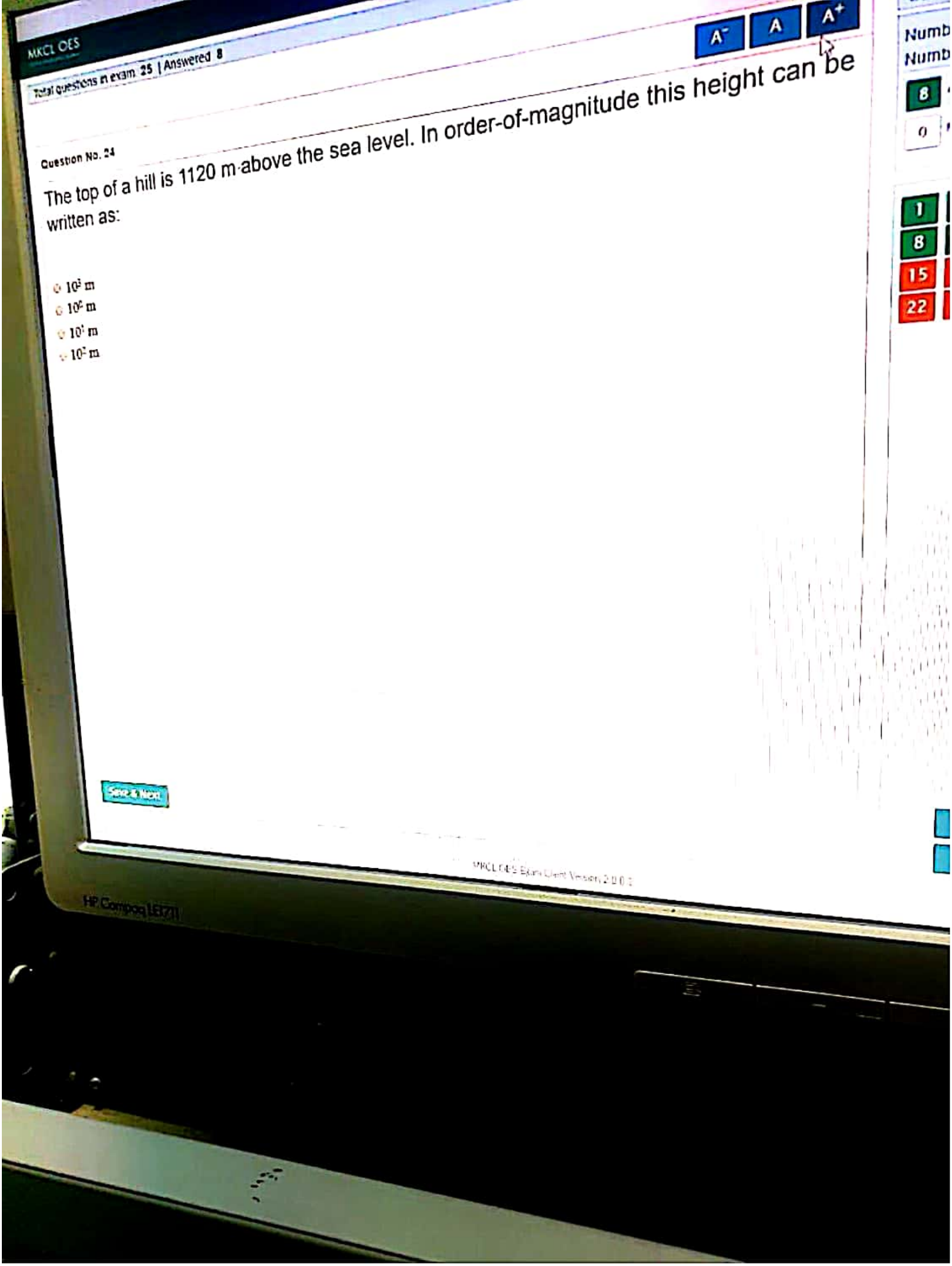

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Total questions in exam: 25 | Answered: 8

Question No. 23

The number of decimal places in (0.0100) is:

- 2
- 5
- 4
- 3

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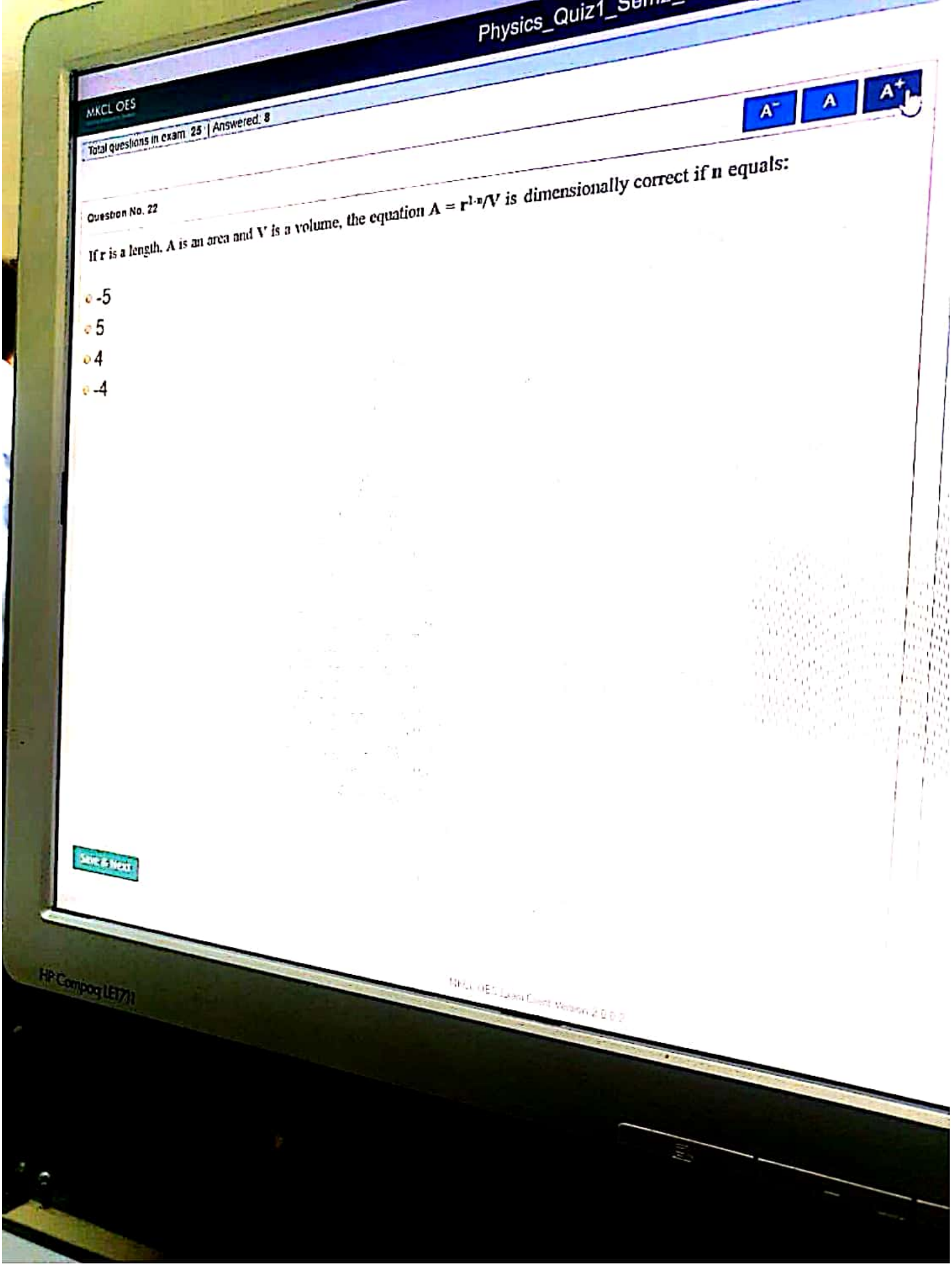

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Physics_Qu

Total questions in exam: 25 | Answered: 8

Question No. 13

The number of significant figures in the numbers A= 7700 and B = 0.00770 are, respectively:

- 4 for A and 4 for B.
- 4 for A and 2 for B.
- 4 for A and 5 for B.
- 2 for A and 3 for B.

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MKCL OES

Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 8

A⁻ A A⁺

Question No. 14

Two forces are: (F1 = 90 N, up) & (F2 = 90 N, right). The magnitude of the resultant (R) is nearly:

- 0 N
- 127 N
- 180 N
- 90 N

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Total questions in exam: 25 | Answered: 6

Question No. 8

A- A

When we use a protractor of 1° smallest divisions, the uncertainty is approximately equal to

- 0.1°
- 5°
- 1°
- 10°

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Physics_Quiz1_Sem2_2020

MKCL OES

Total questions in exam: 25 | Answered: 8

A⁻ A A⁺

Question No. 12

If r is a length, v is a speed and t is time, the equation $v = kr/t^2$ is dimensionally correct if k has the dimension of:

- TL
- L
- T
- LT

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Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 8

A⁻ A A⁺

Question No. 14

Two forces are: (F1 = 90 N, up) & (F2 = 90 N, right). The magnitude of the resultant (R) is nearly:

- 0 N
- 127 N
- 180 N
- 90 N

Save & Next

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MACLOES

Total questions in exam: 25 | Answered: 8

Question No. 15

A vector is represented by:

- an arrow
- a square
- a triangle
- a straight line

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MKCL OES

Physics_Qu

Total questions in exam: 25 | Answered: 8

Question No. 13

The number of significant figures in the numbers A= 7700 and B = 0.00770 are, respectively:

- 4 for A and 4 for B.
- 4 for A and 2 for B.
- 4 for A and 5 for B.
- 2 for A and 3 for B.

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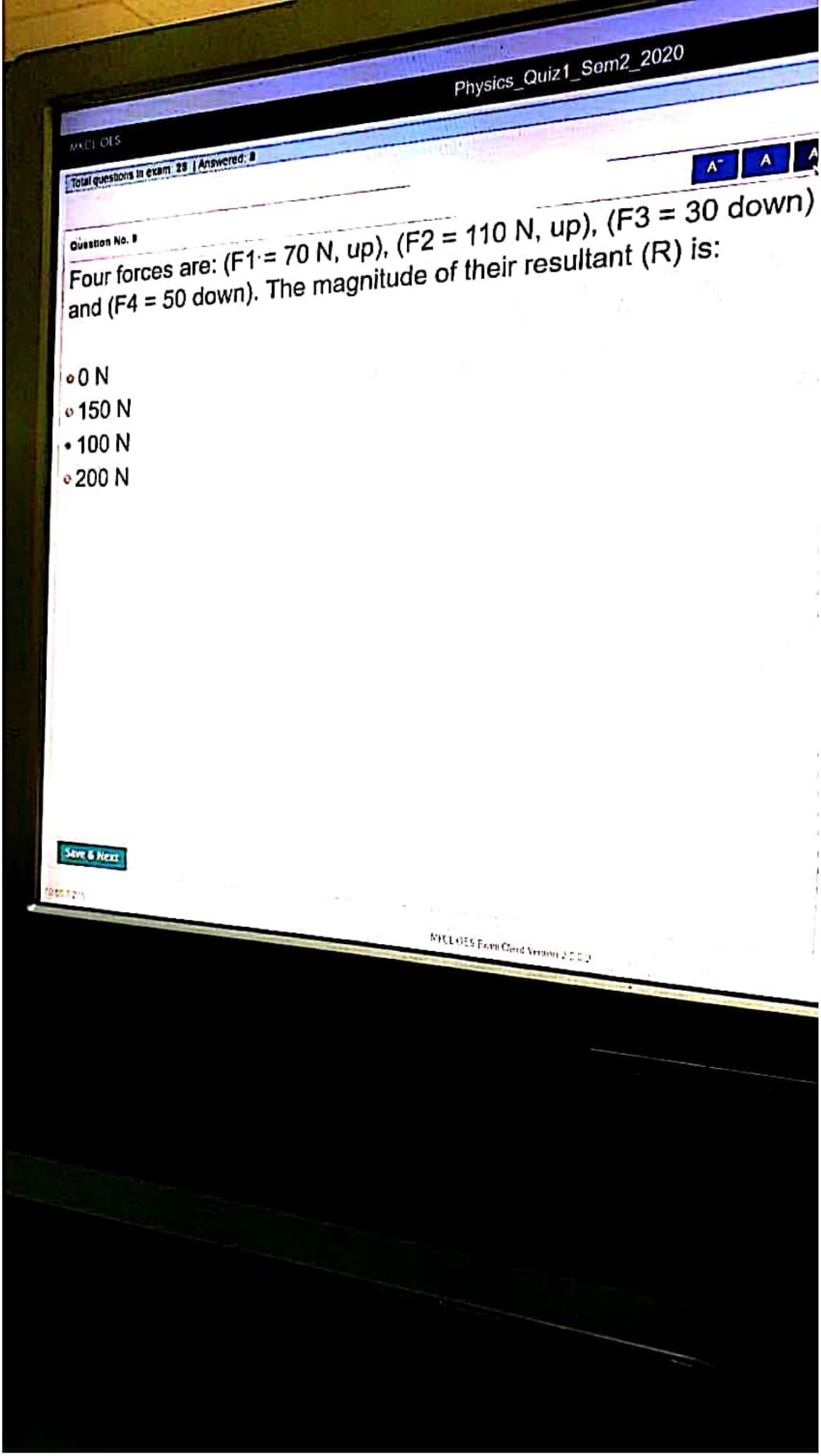

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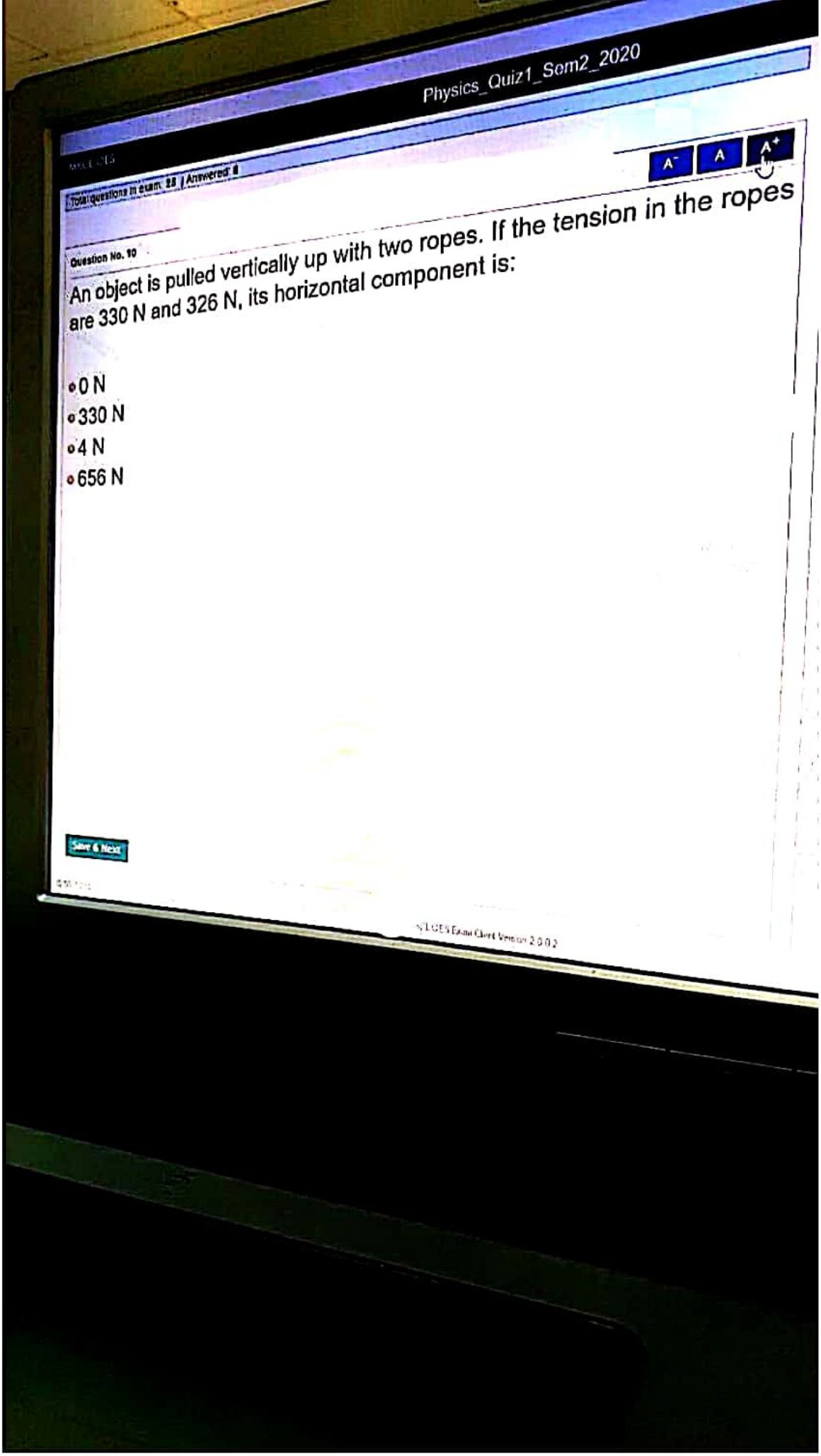

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Physics_Quiz1_Sem2_2020

MKCL OES

Total questions in exam: 25 | Answered: 8

A- A A+

Question No. 11

"Good precision" is an instrument's ability to give measurements that are:

- random
- repeatedly far from each other
- repeatedly close to each other
- always scattered

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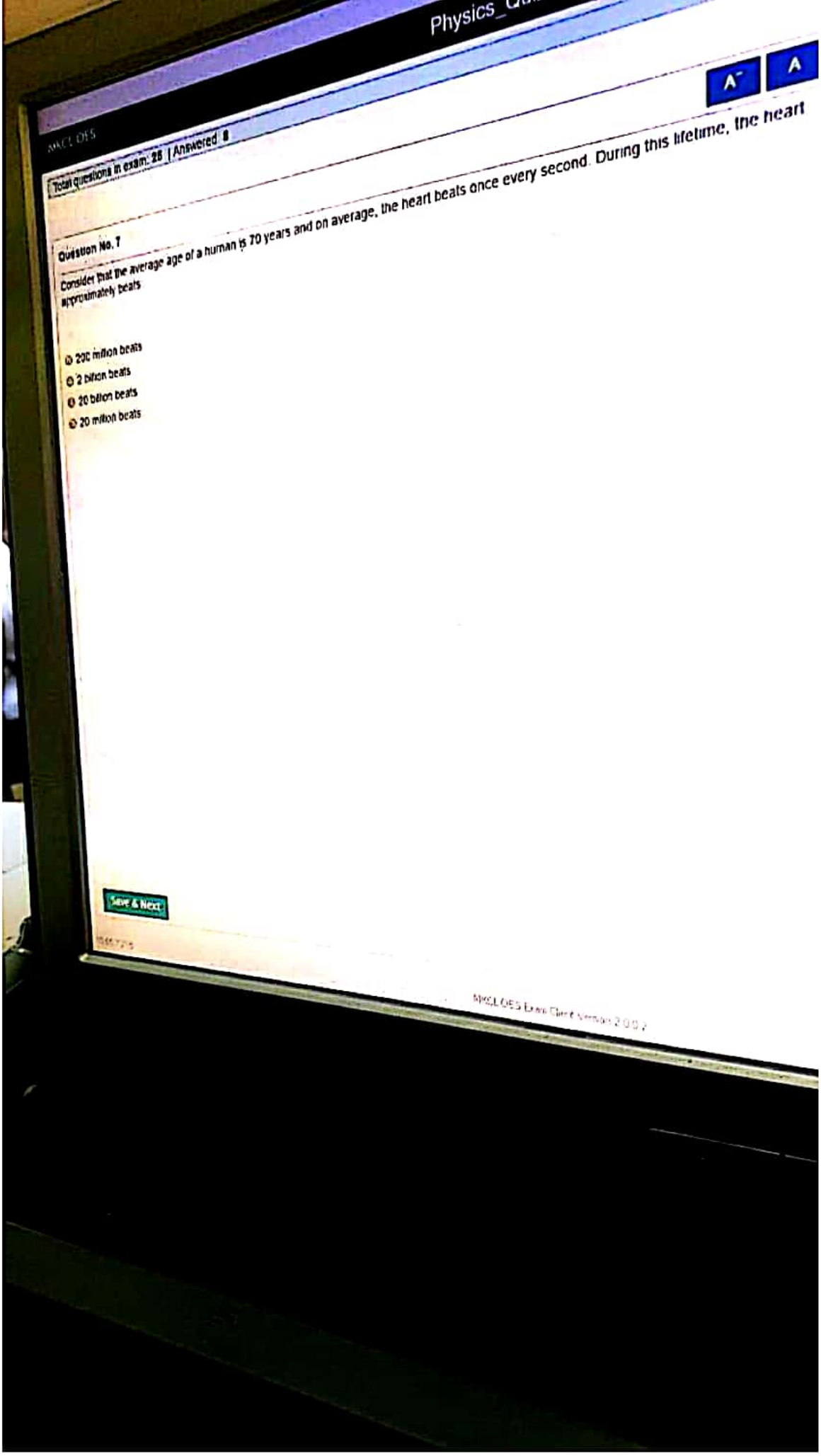

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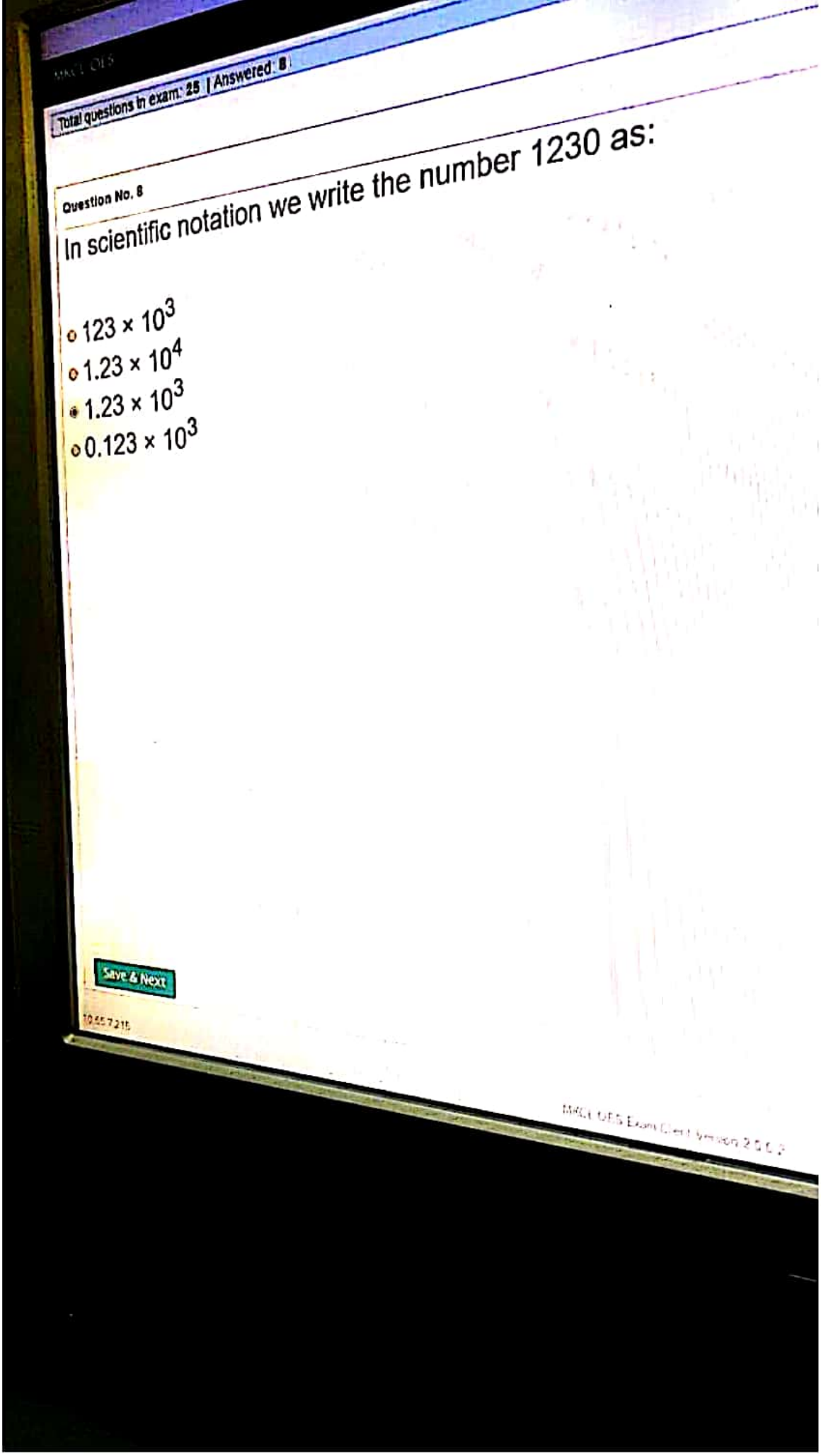

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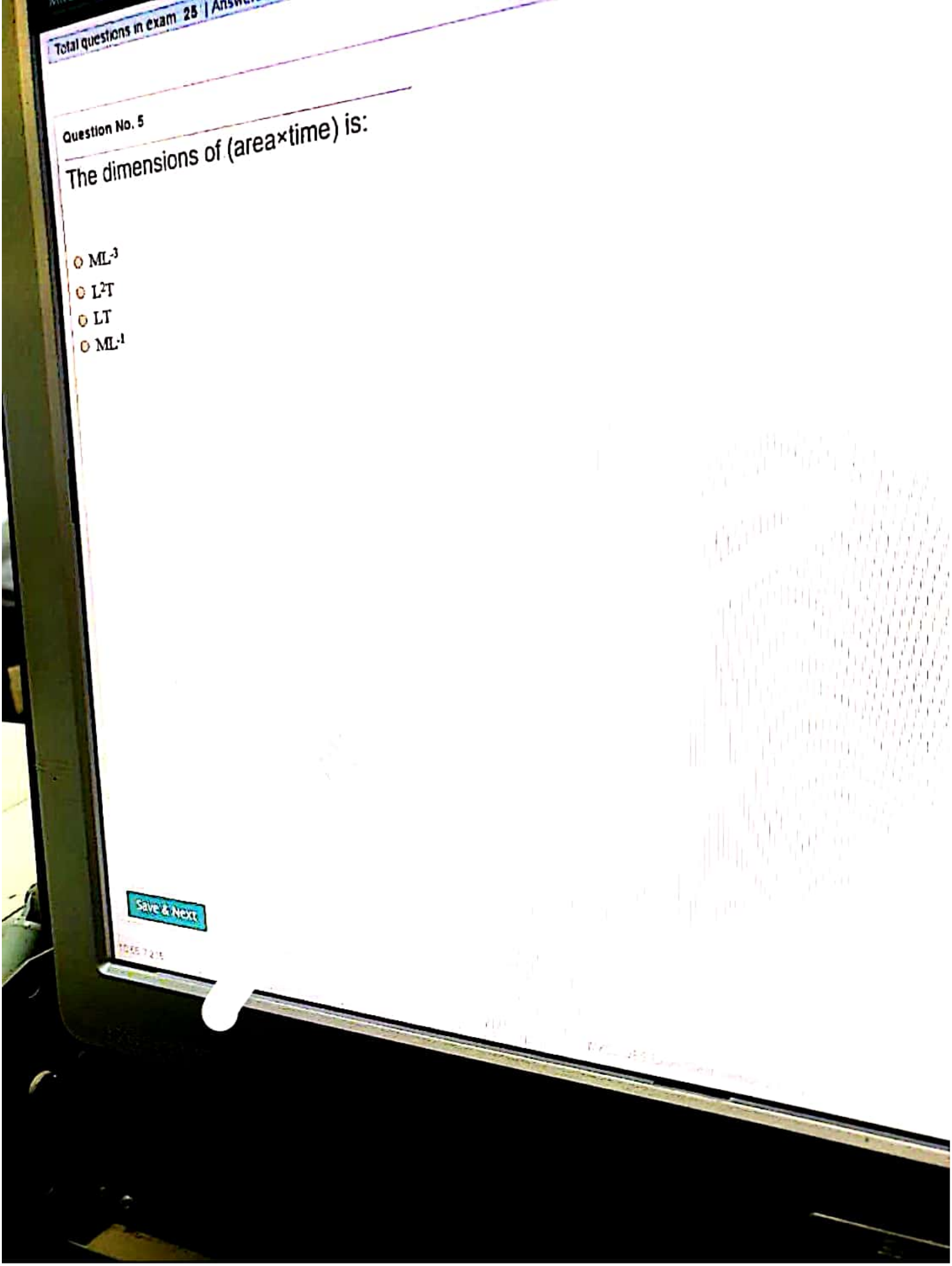

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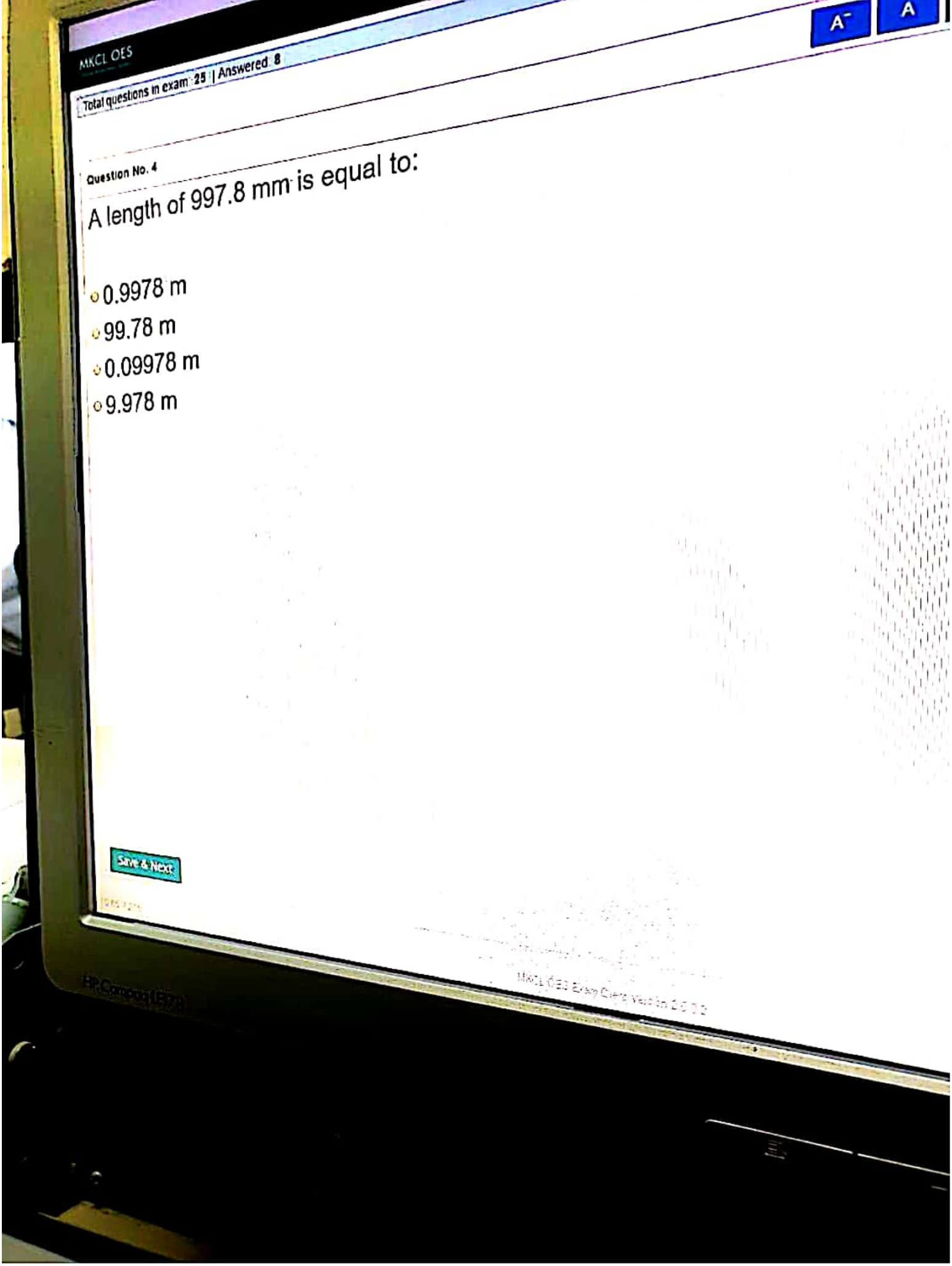

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MKCL OES

Total questions in exam: 25 | Answered: 8

Question No. 1

427 cm^2 to m^2: $(1\ m^2 = 10000\ cm^2)$

- (•) 0.0427 m^2
- ( ) 4.27 m^2
- ( ) 42.7 m^2
- ( ) 0.427 m^2

Save & Next

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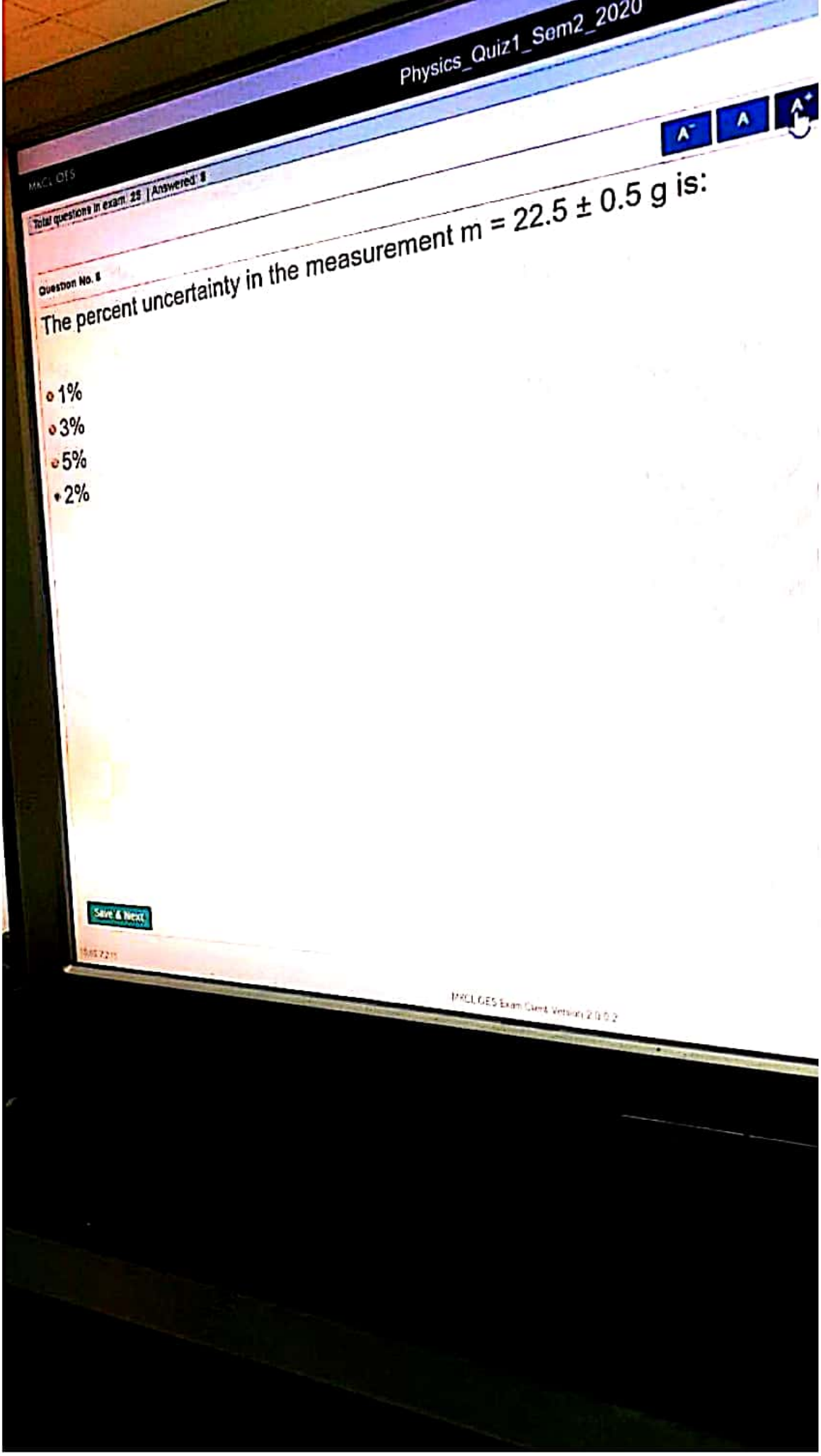

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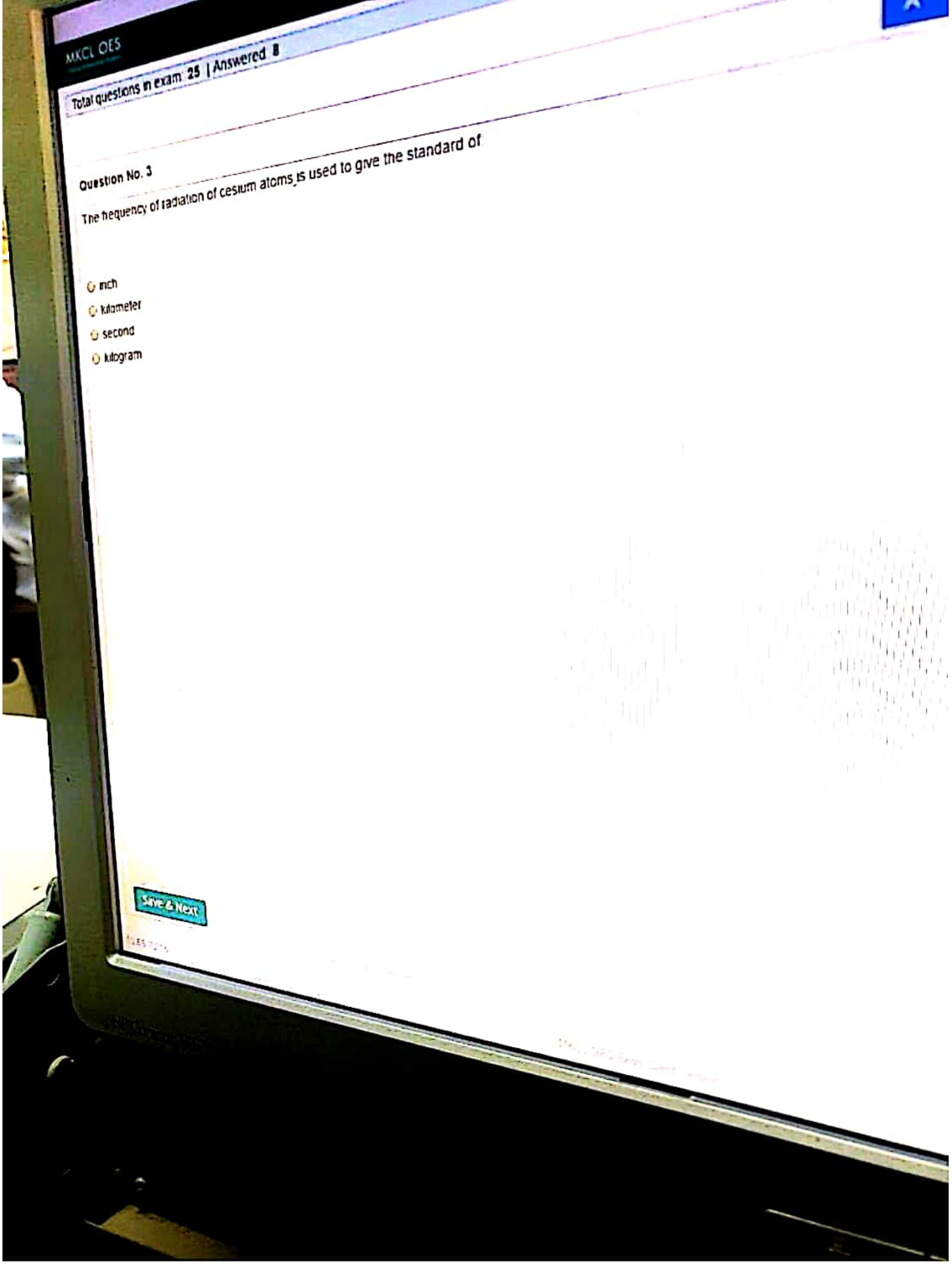

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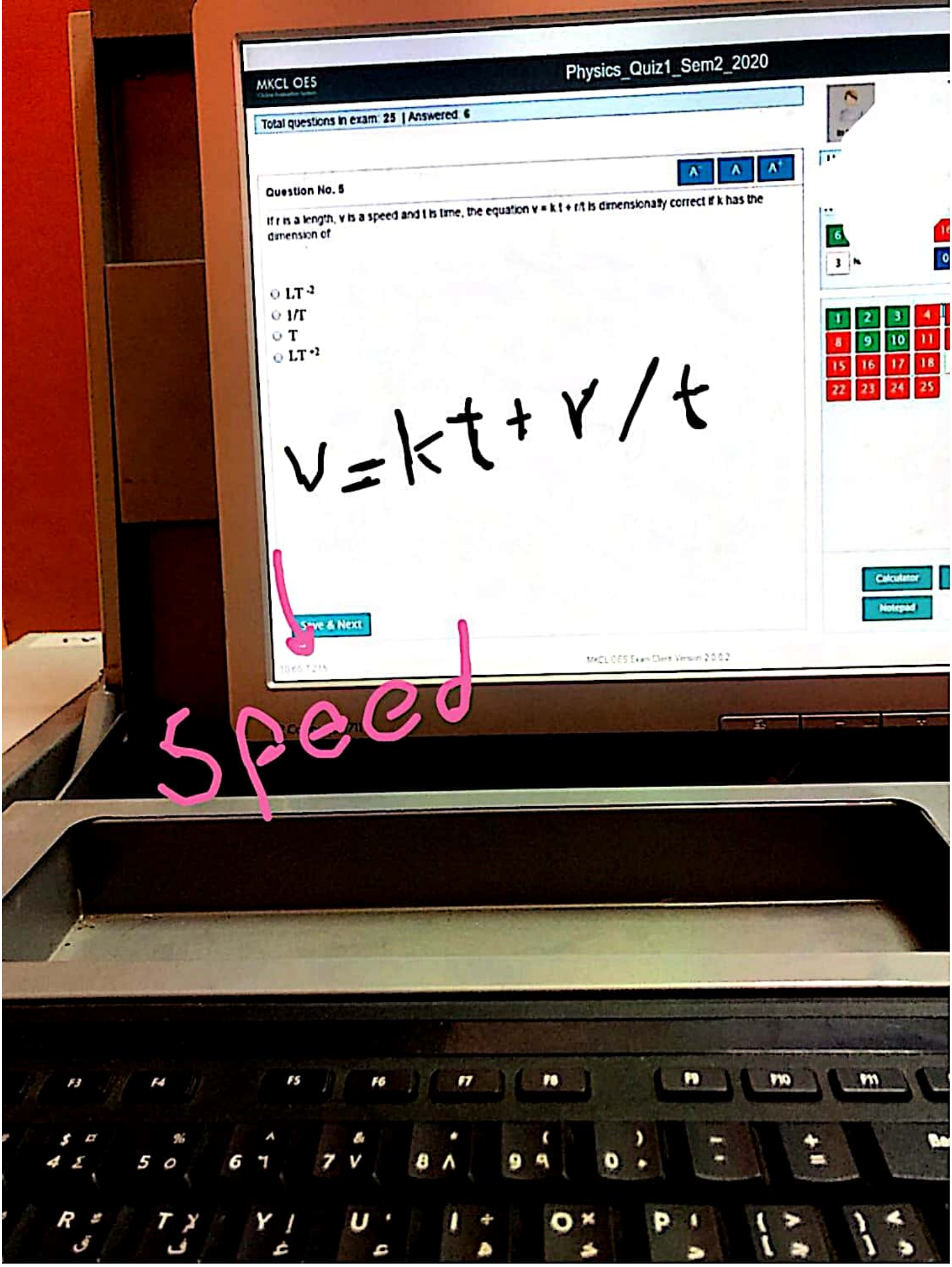

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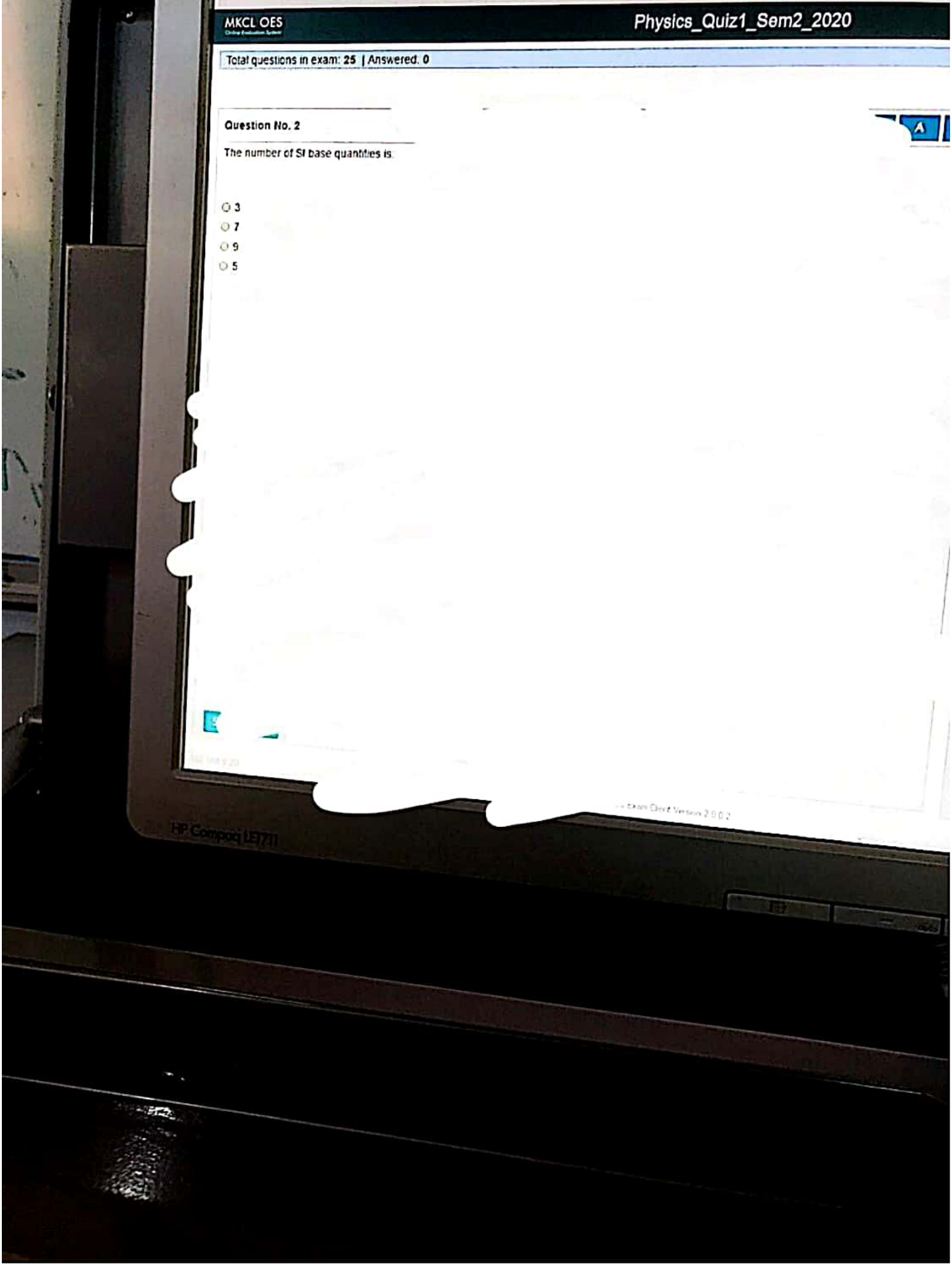

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Total questions in exam: 25 | Answered: 22

A

Q. No. 1

In scientific notation we write the number 1230000 as:

- 12.3×10^7
- 1.23×10^6
- 0.123×10^6
- 12.3×10^6

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Physics Quiz1 Sem2 2020

Total questions in exam: 25 | Answered: 23

When two vectors do not act in exactly the same or opposite direction, their resultant can be found using:

- Area rule
- Right-hand theorem
- Circle rule
- Parallelogram rule

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Considering order of magnitude, the number 11201 can be written as

- 10^4
- 10^3
- 10^6
- 10^5

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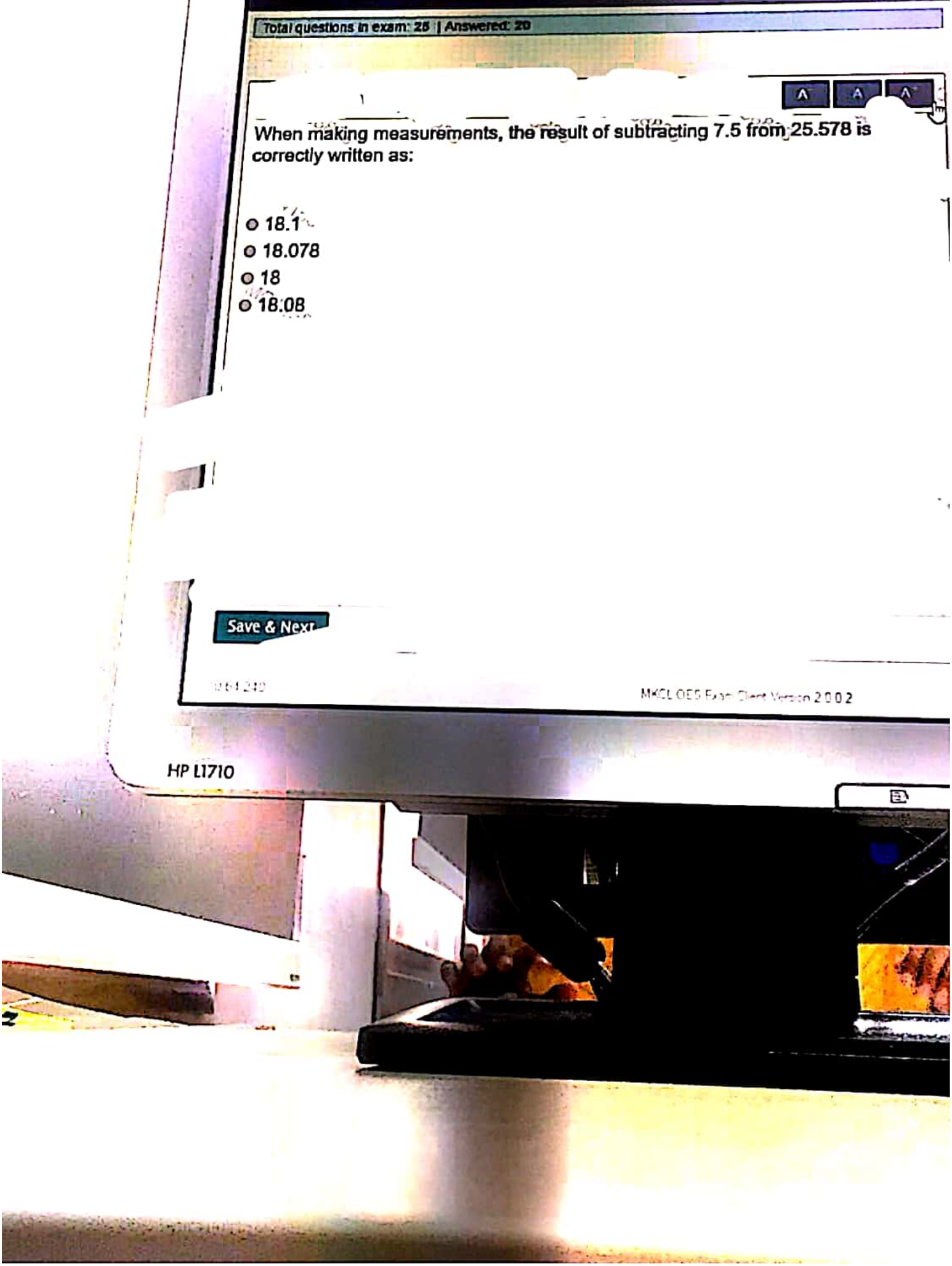

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Knowing that 1 mile = 1609 m, 98 km is nearly equivalent to:

- 0.61 miles
- 98 miles
- 6.1 miles
- 61 miles

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HP L1710

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Three forces are: (F1 = 134 N, right), (F2 = 17 N, left) and (F3 = 43 N left). The magnitude of their resultant (R) is:

- 160 N
- 74 N
- 210 N
- 17 N

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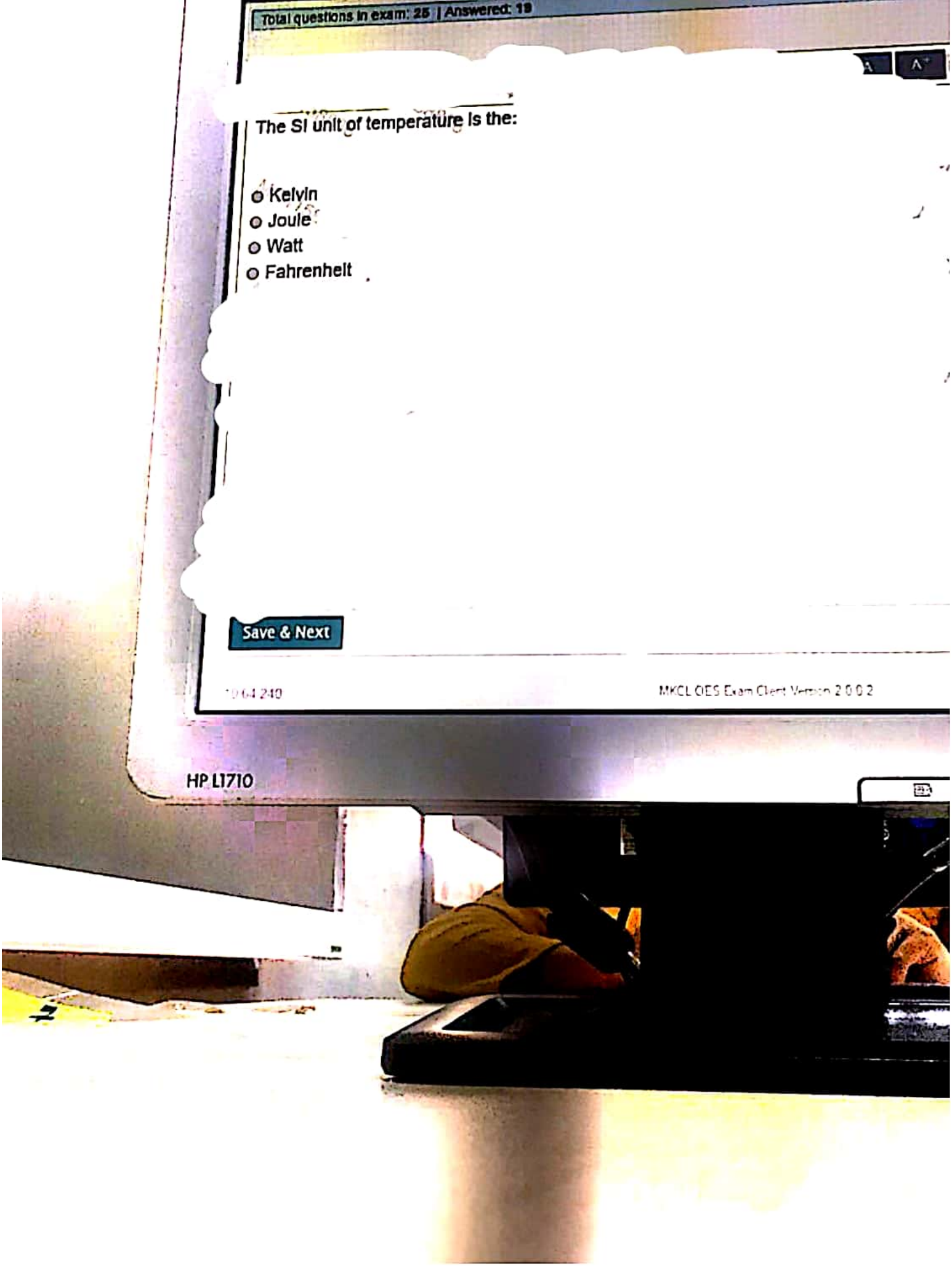

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Total questions in exam: 25 | Answered: 19

A length of 997.8 mm is equal to:

- 9.978 m
- 0.9978 m
- 0.09978 m
- 99.78 m

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A A A

An atom's radius is 10^{-10} m. This equals, (1 nano = 10^{-9}, 1 micro (μ) = 10^{3} nano, 1m = 10^{6} μm):

- 1 nm
- 1 μm
- 0.1 μm
- 0.1 nm

Save & Next

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The percent uncertainty in the measurement m = 22.5 ± 0.5 g is.

- 2%
- 1%
- 5%
- 3%

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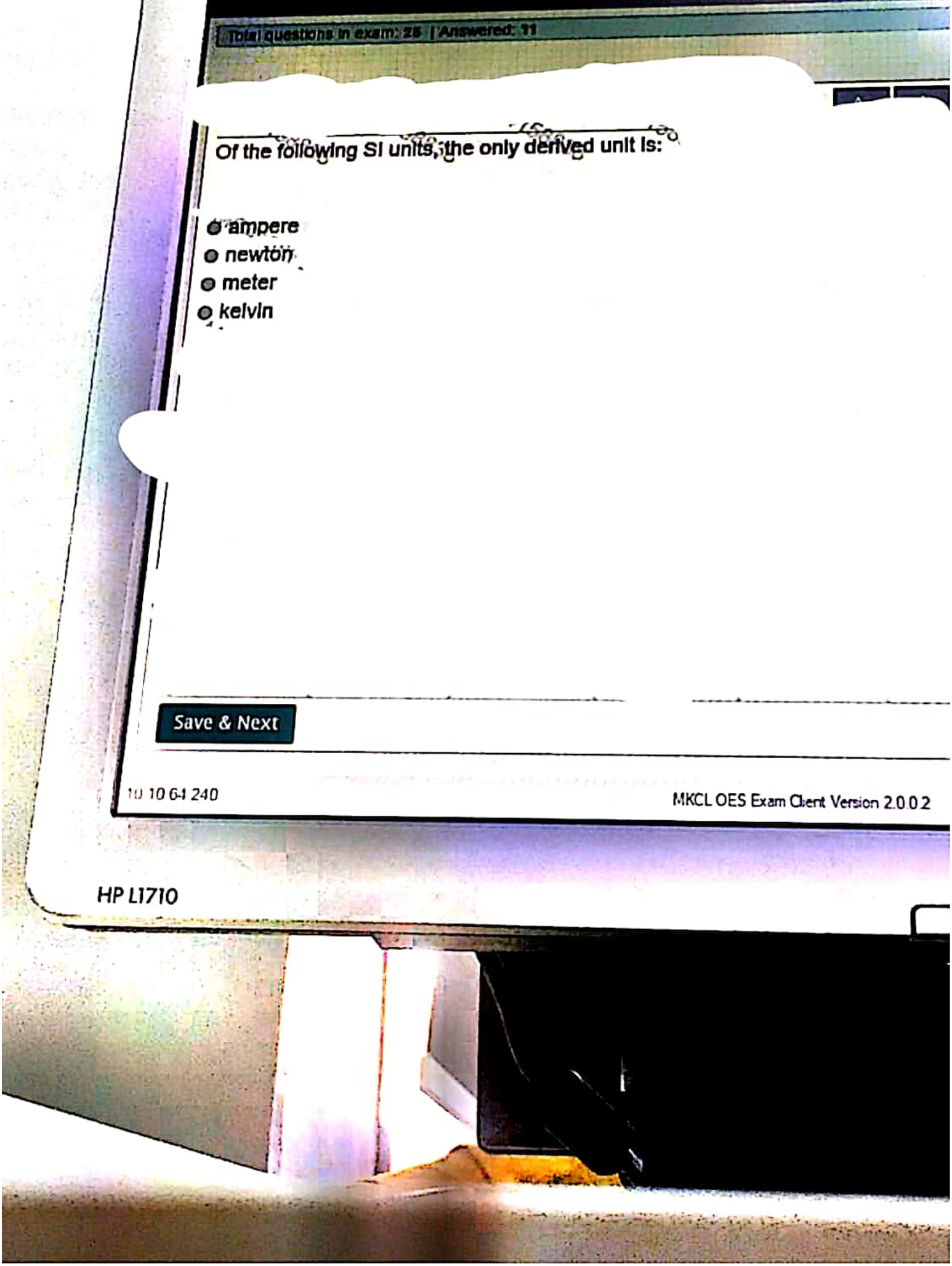

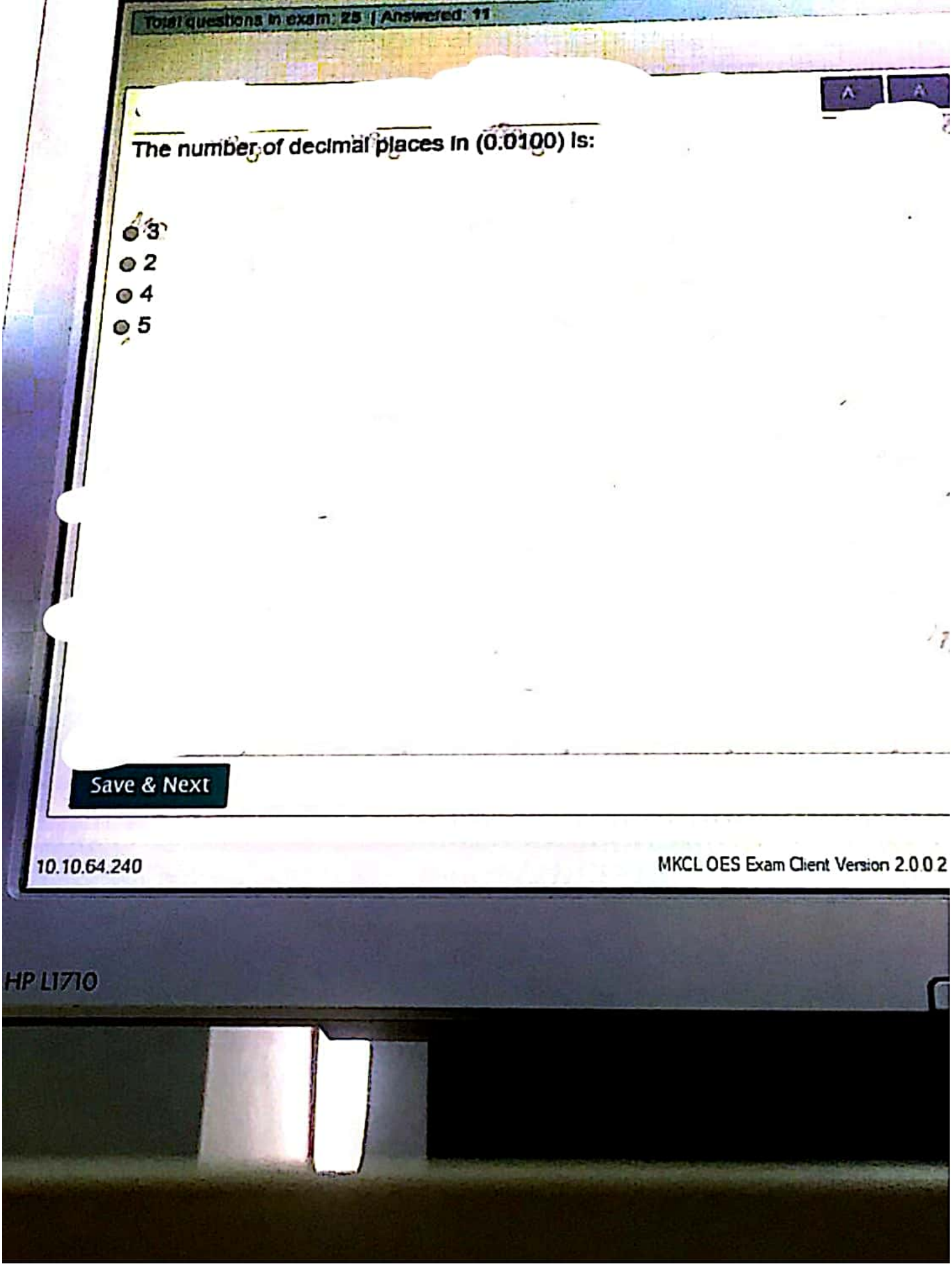

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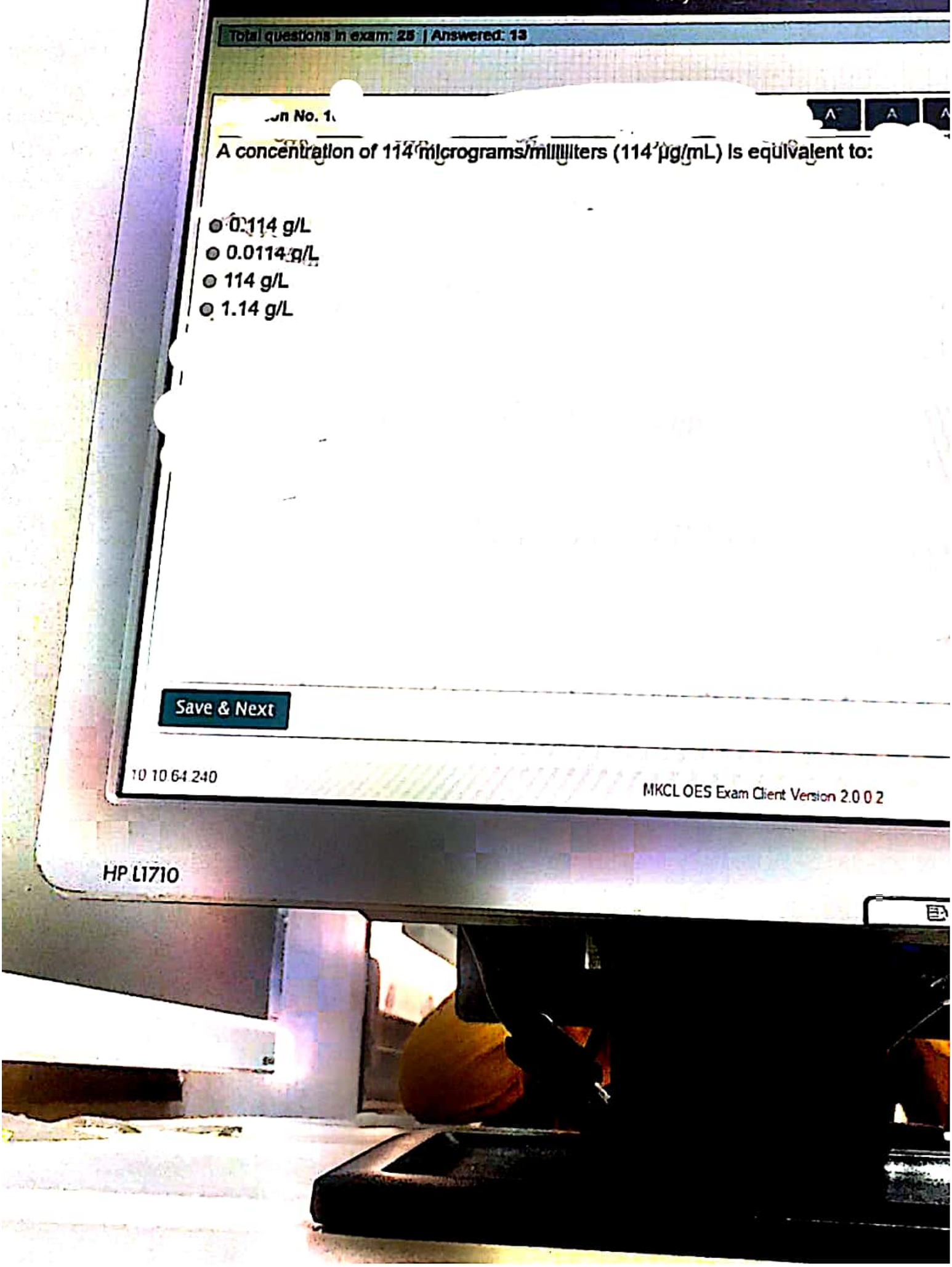

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Total questions in exam: 25 | Answered: 8

If r is a length, A is an area and V is a volume, the equation $A = r^{1-n}/V$ is dimensionally correct if n equals:

- -4
- -5
- 4
- 5

$A = r^{1-n}/V$

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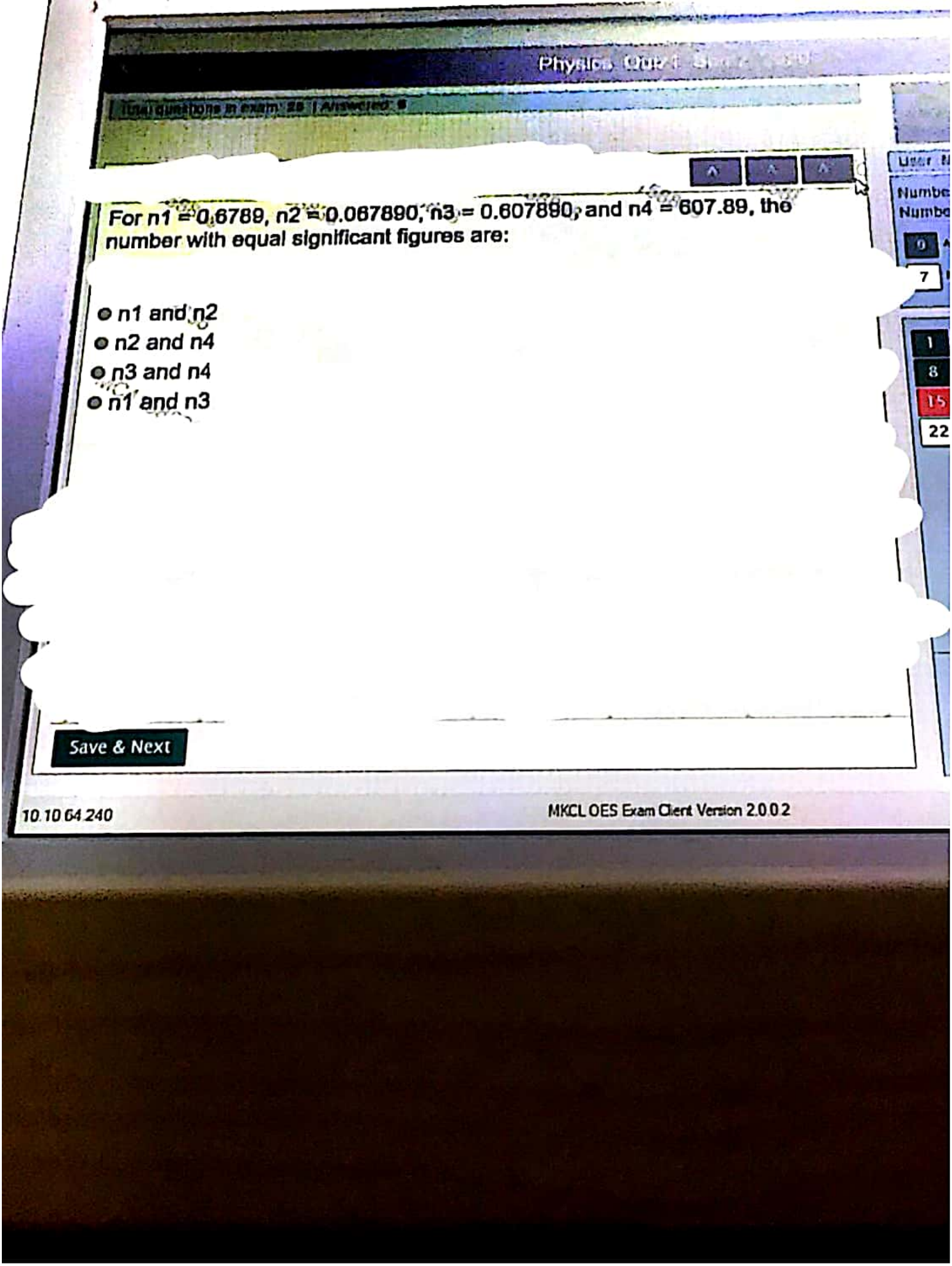

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Physics Quiz1 Sem2 2020

Total questions in exam: 25 | Answered: 9

User :MC4

Number of
Number of

9

7

1 2
8 9
15 16
22 23

An object starts moving uniformly from rest in straight line and reaches 30 m/s in 5 seconds. Its acceleration is:

- 6 m/s/s
- 25 m/s/s
- 27 m/s/s
- 30 m/s/s

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Total questions in exam: 25 | Answered: 7

A A A+

An airplane of velocity (v1 = 800 km/h, north) faces a wind of velocity (v2 = 60 km/h, west). The resultant velocity of the plane is:

- (802 km/h, north of west)
- (802 km/h, south of west)
- (740 km/h, south of west)
- (740 km/h, north of west)

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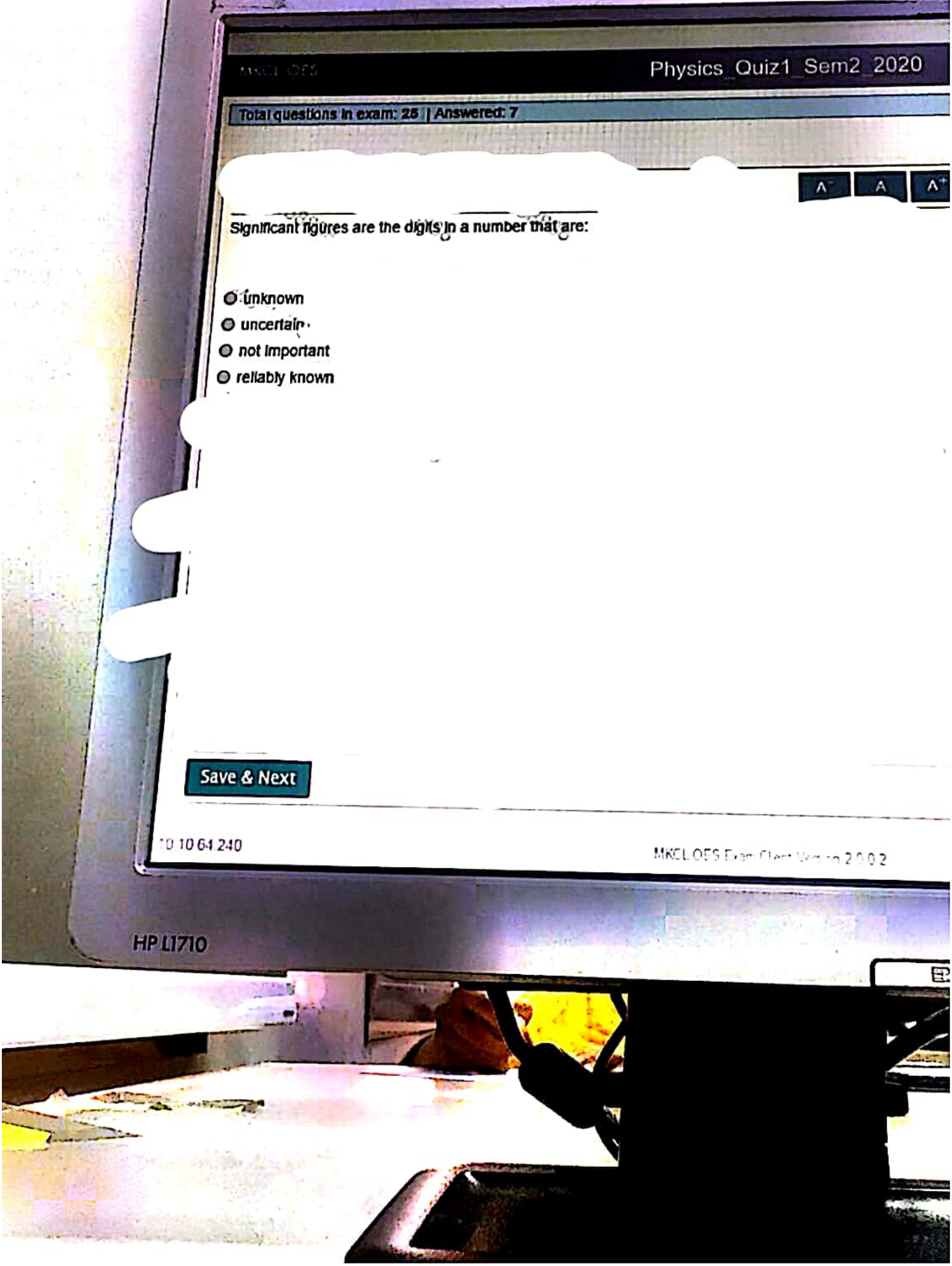

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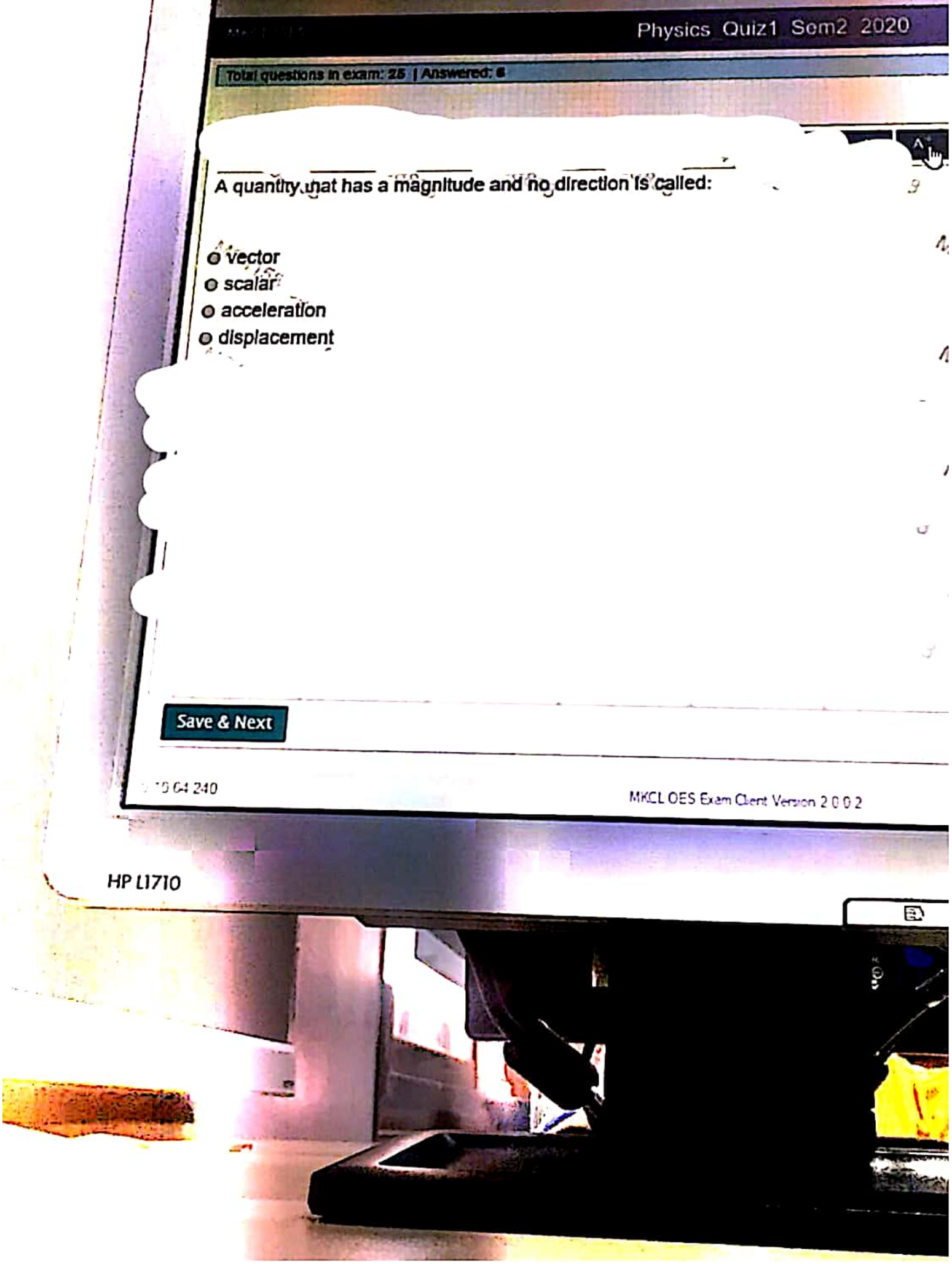

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The dimensions of (time/volume) is:

- TL^{-2}
- TL^{-3}
- TL^{3}
- TL^{-1}

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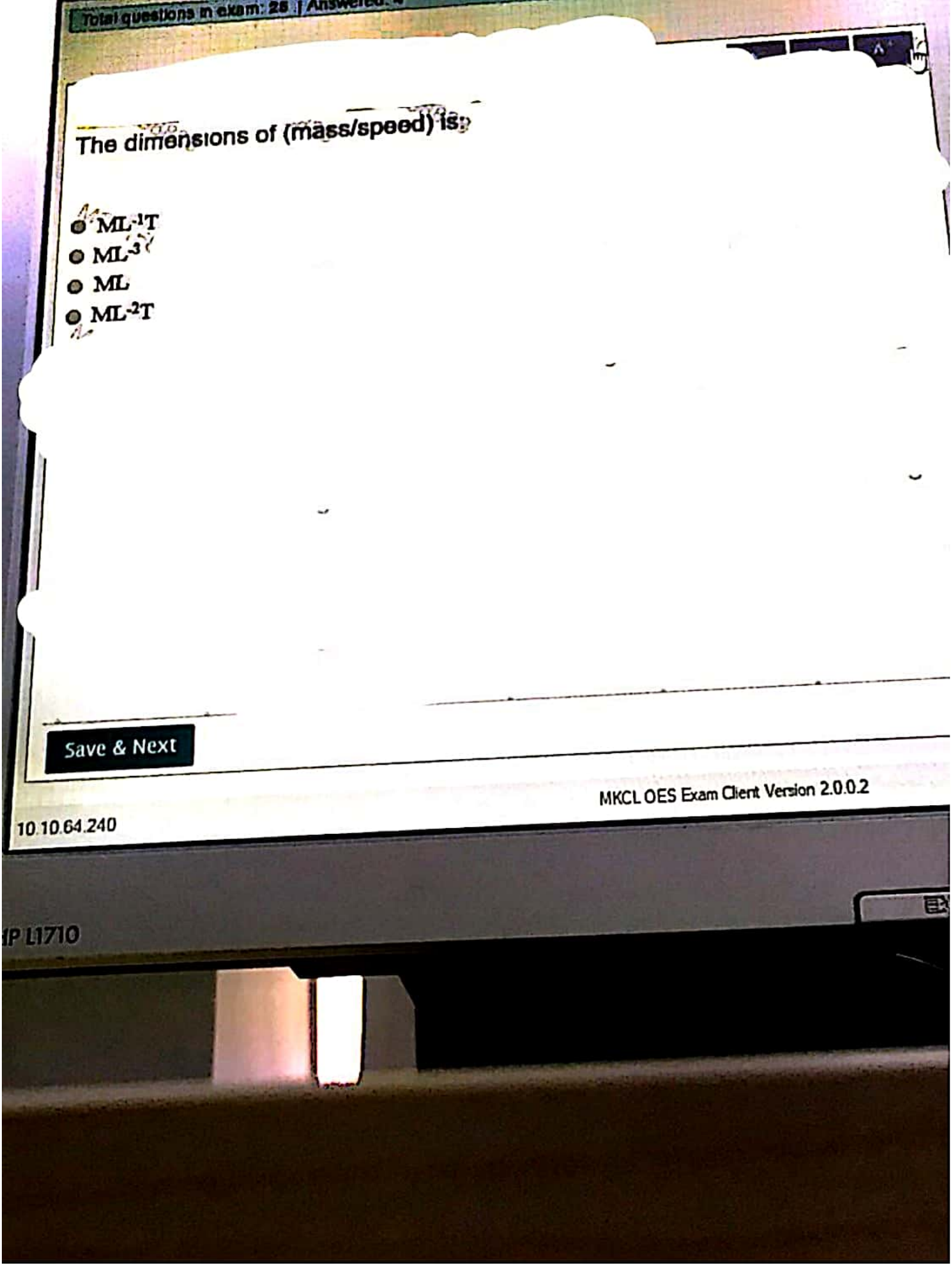

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Physics Quiz1 Set2

Three forces are: (F1 = 63 N, east), (F2 = 42 N, west) & (F3 = 13 N, west).
Their resultant (R) is:

- 79 N, east
- 24 N, east
- 8 N, west
- 8 N, east

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MKCL OES

Physics_Quiz1_Sem2_2020

Total questions in exam: 25 | Answered: 0

Question No. 1

The dimensions of (length × speed/area) is

- T^{-1}
- T^{-3}
- T^{4}
- T^{2}

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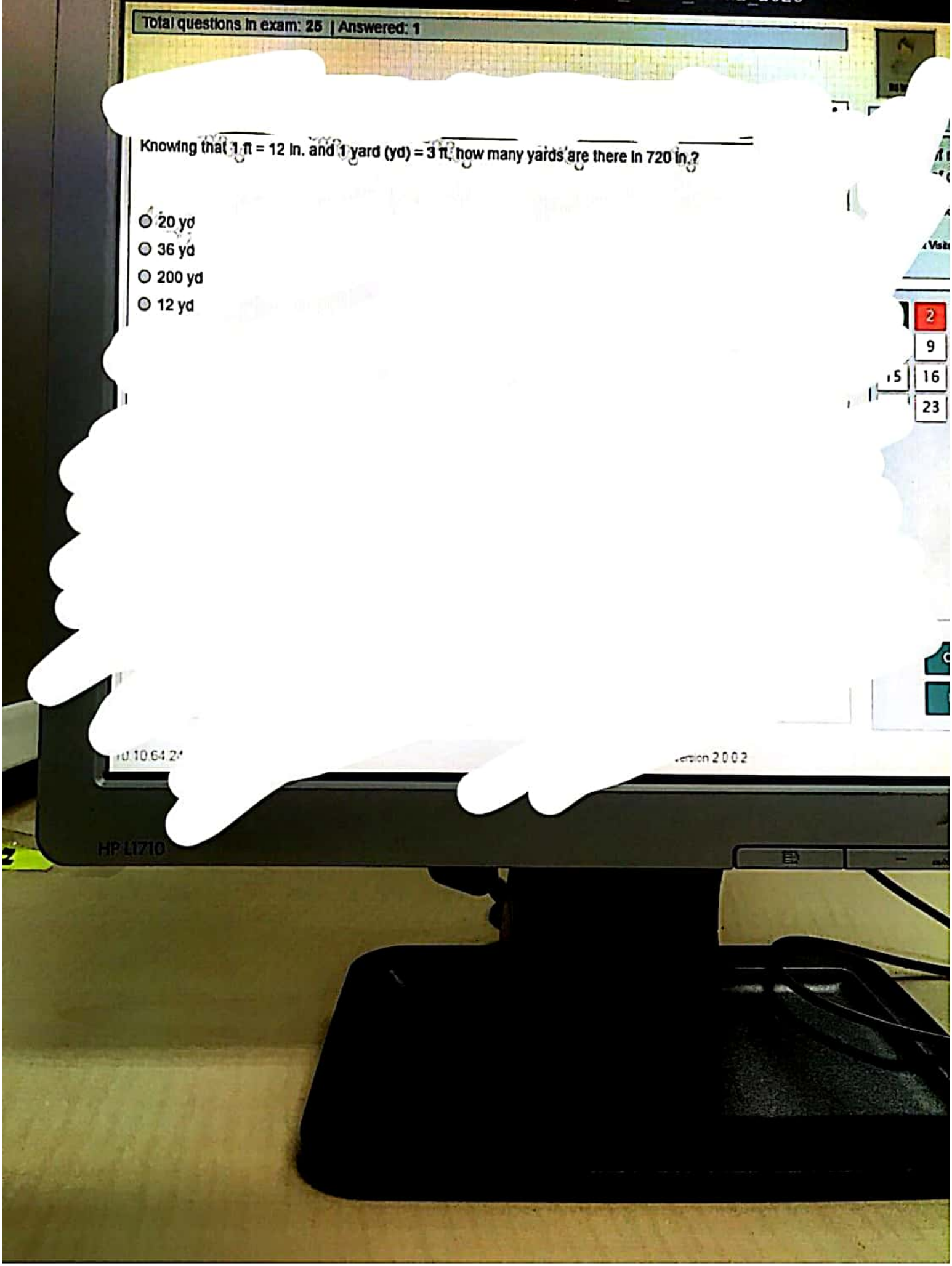

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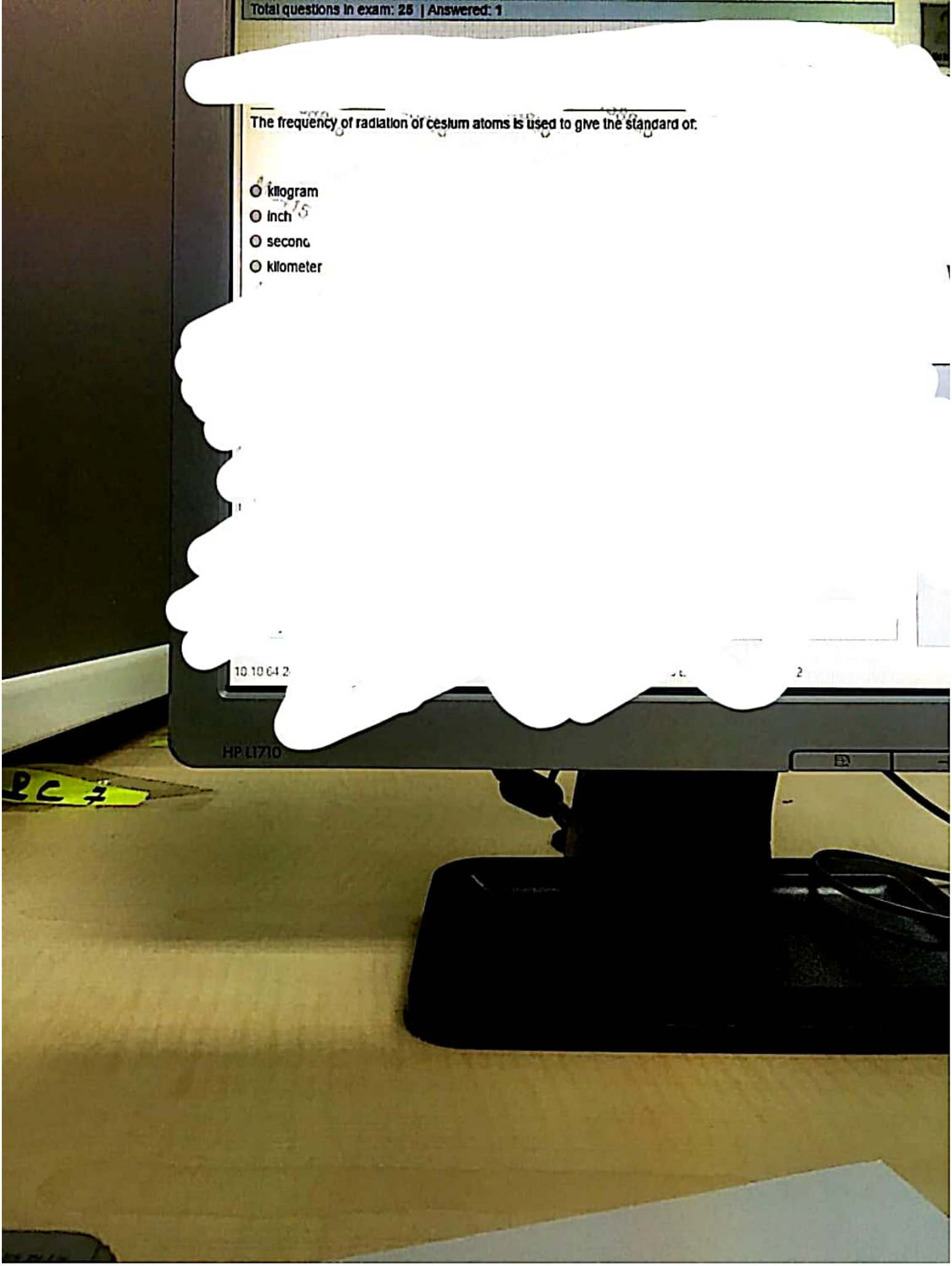

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