تجميعات الفيزياء

1441__ 2020

فما لذة الحياة دون تحدي ! !
وما قيمة الحلم إن كان سهلا ميسرا ! !

الحلول جميعها صحيحة بإذن الله 💕
مريم جدو & ✨✨
دعواتكم وموفقين يارب 💕💕

أختكم : عفاف الجهني
دعواتكم لي

MKCL OES

Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 7

Question No. 20

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 estimated as:

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

A

1 Page = 2 sheet

Step(1)

1 inches = 2.54

1.9 → x

= 4.826 cm

convert 4.826 cm into mm

= 48.26 mm

Step(2)

48.26 / 1200

= 0.04 Page

0.04 Page X 2 = 0.08 sheet

Save & Next

10.65.7.215

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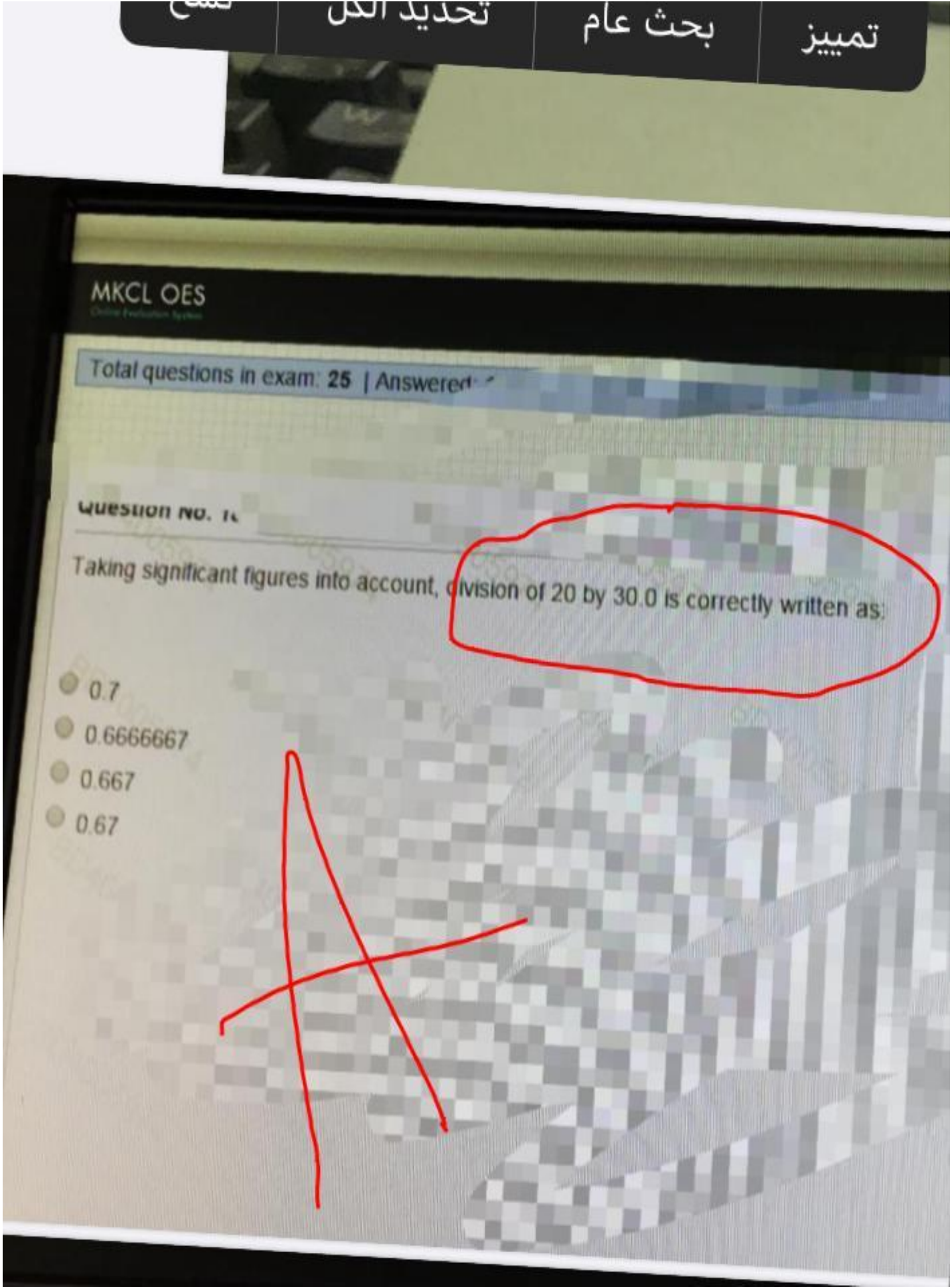
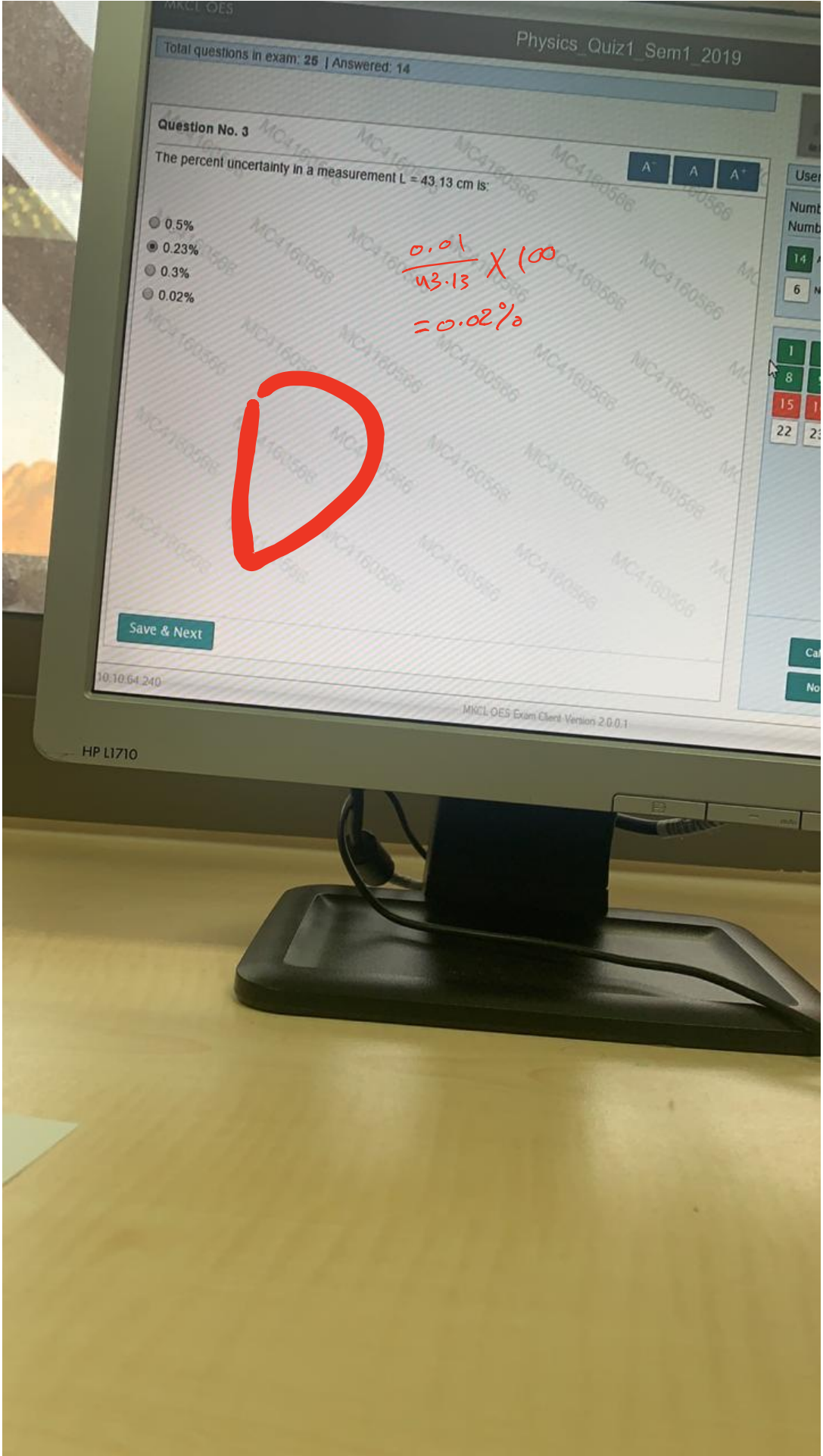
HP L1710




Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 14
Question No. 3
The percent uncertainty in a measurement L = 43.13 cm is:
0.5%
0.23%
0.3%
0.02%
0.01/43.13 X 100
=0.02%
D
Save & Next
10.10.64.240
MKCL OES Exam Client Version 2.0.0.1
HP L1710

Question No. 15

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

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

MLT^{-2}

D

Save & Next

MKCL OES

Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 12

Question No. 18

A⁻ A A⁺

Vectors A and B are the horizontal and vertical components for vector C. The magnitude of C is given by the relation:

- $C^2 = B^2 - A^2$
- $C = A^2 + B^2$
- $C = \sqrt{A^2 + B^2}$
- $C^2 = A^2 - B^2$

C

Save & Next

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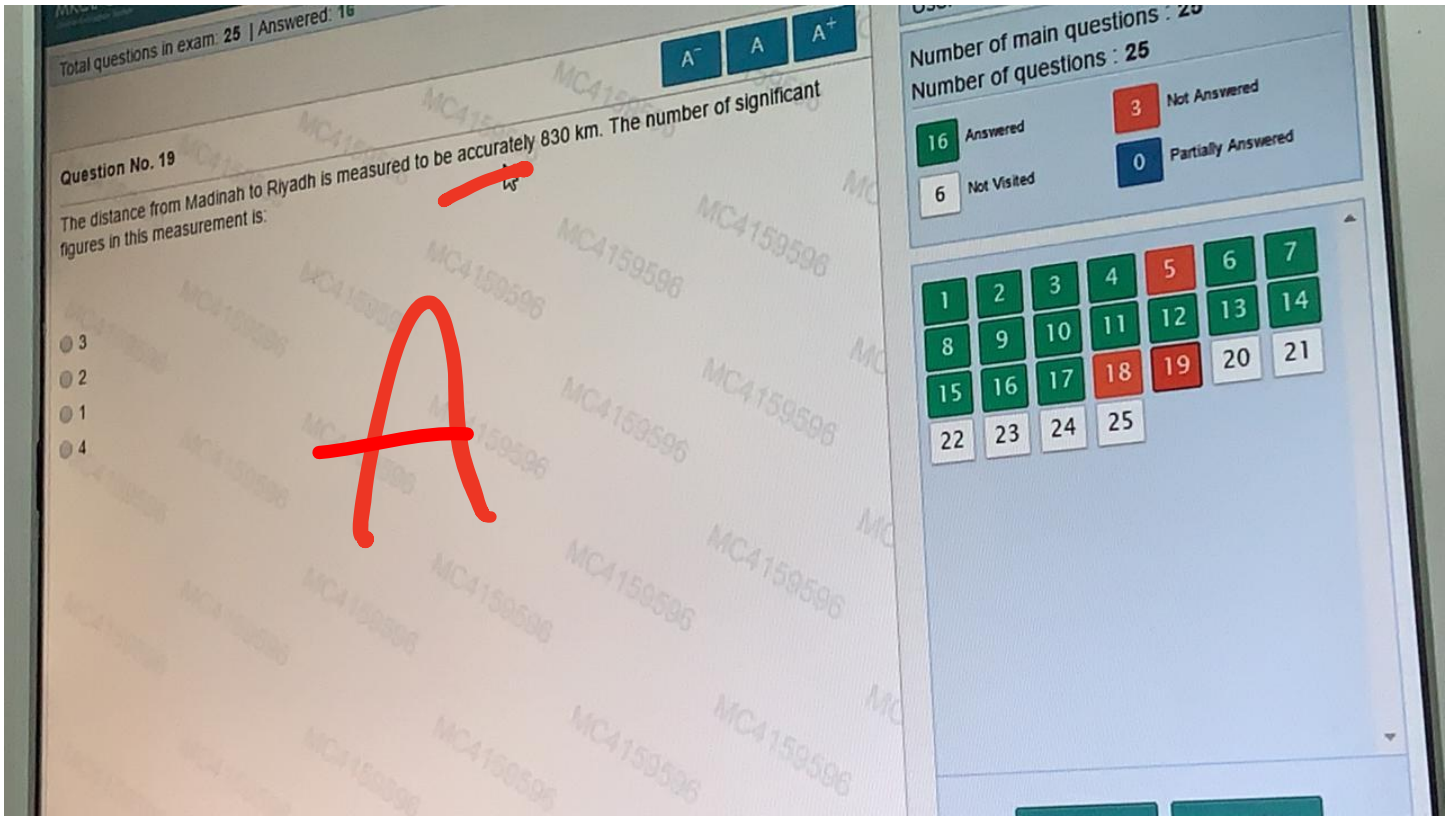
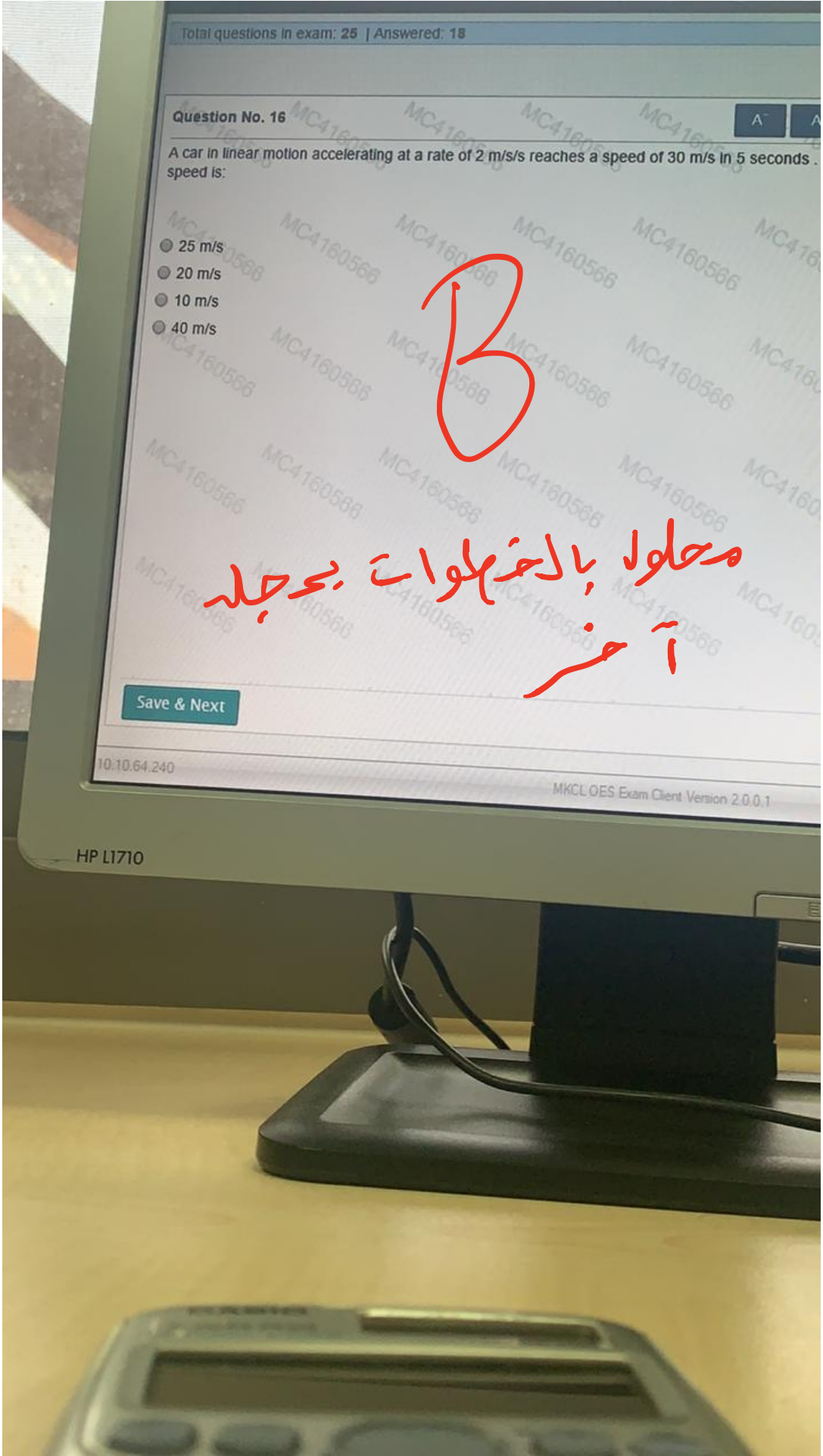

Total questions in exam: 25 | Answered: 16
A⁻ A A⁺
Question No. 19
The distance from Madinah to Riyadh is measured to be accurately 830 km. The number of significant figures in this measurement is:
3
2
1
4
A
Number of main questions : 25
Number of questions : 25
16 Answered
3 Not Answered
6 Not Visited
0 Partially Answered
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25


Total questions in exam: 25 | Answered: 18
Question No. 16
A car in linear motion accelerating at a rate of 2 m/s/s reaches a speed of 30 m/s in 5 seconds . speed is:
25 m/s
20 m/s
10 m/s
40 m/s
B
محلول بالخطوات بحجله آخر
Save & Next
10.10.64.240
MKCL OES Exam Client Version 2.0.0.1
HP L1710

MKCL OES

Physics_Quiz1_Sem1_2019

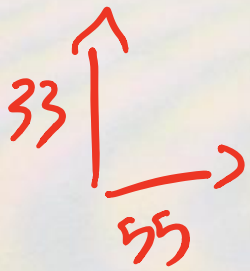
Total questions in exam: 25 | Answered: 12

Question No. 21

A⁻ A A⁺

Two forces are: (F1 = 55 N, west) & (F2 = 33 N, north). The magnitude of their resultant (R) is:

- 0 N
- 22 N
- 64 N
- 88 N



C

$\sqrt{33^2+55^2}$

$= 64$

Save & Next

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MKCL OES

Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 12

Question No. 22

A⁻ A A⁺

Three forces are: (F1 = 40 N, north), (F2 = 0, east) and (F3 = 50 N, north). Their resultant (R) is:

- 30 N, north-west
- 90 N, south
- 30 N, north-east
- 90 N, north

40+50=90

D

Save & Next

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MKCL OES

Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 12

Question No. 19

A⁻ A A⁺

A quantity that requires both magnitude and direction is called:

- speed
- scalar
- mass
- vector

Save & Next

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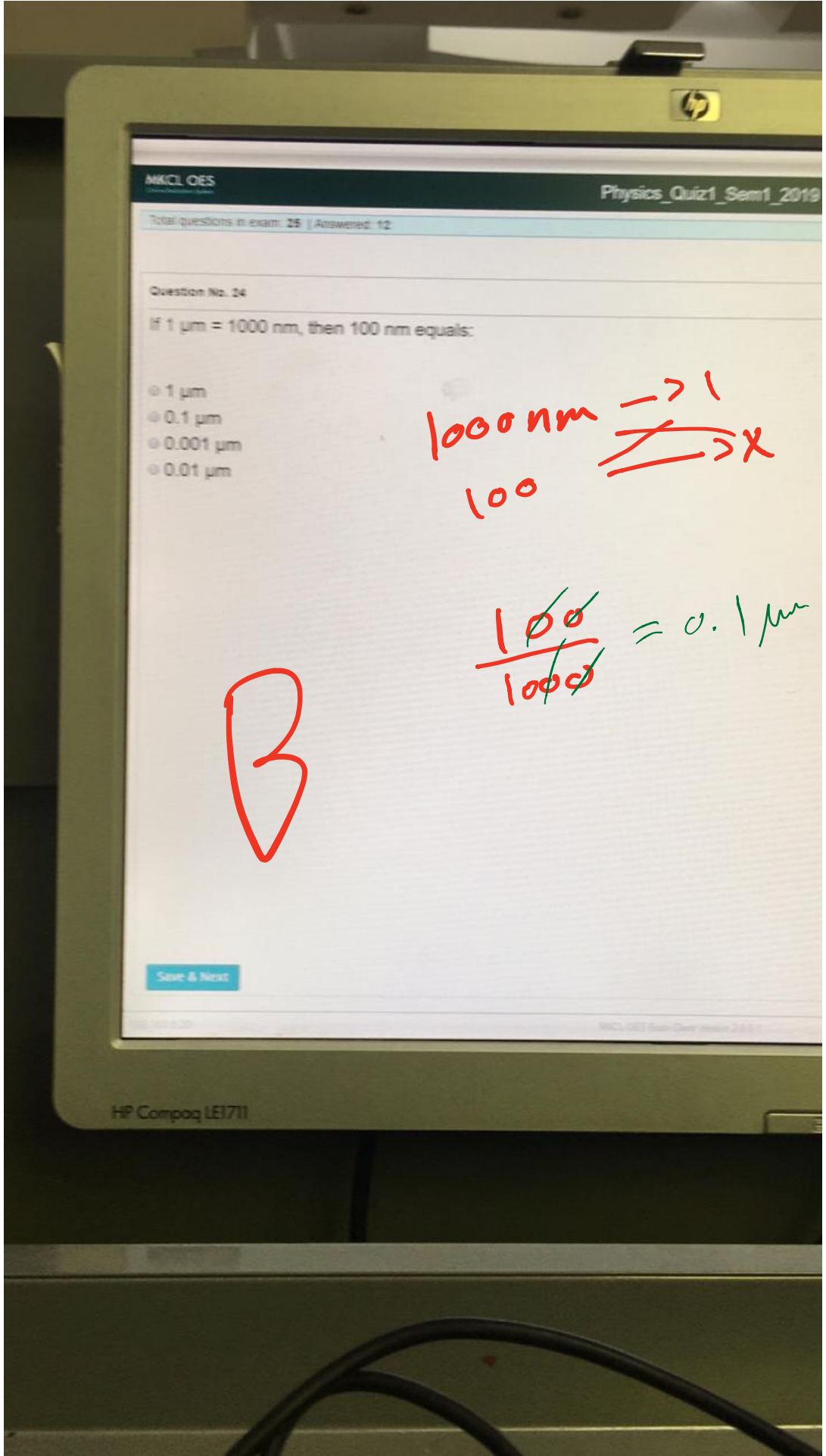
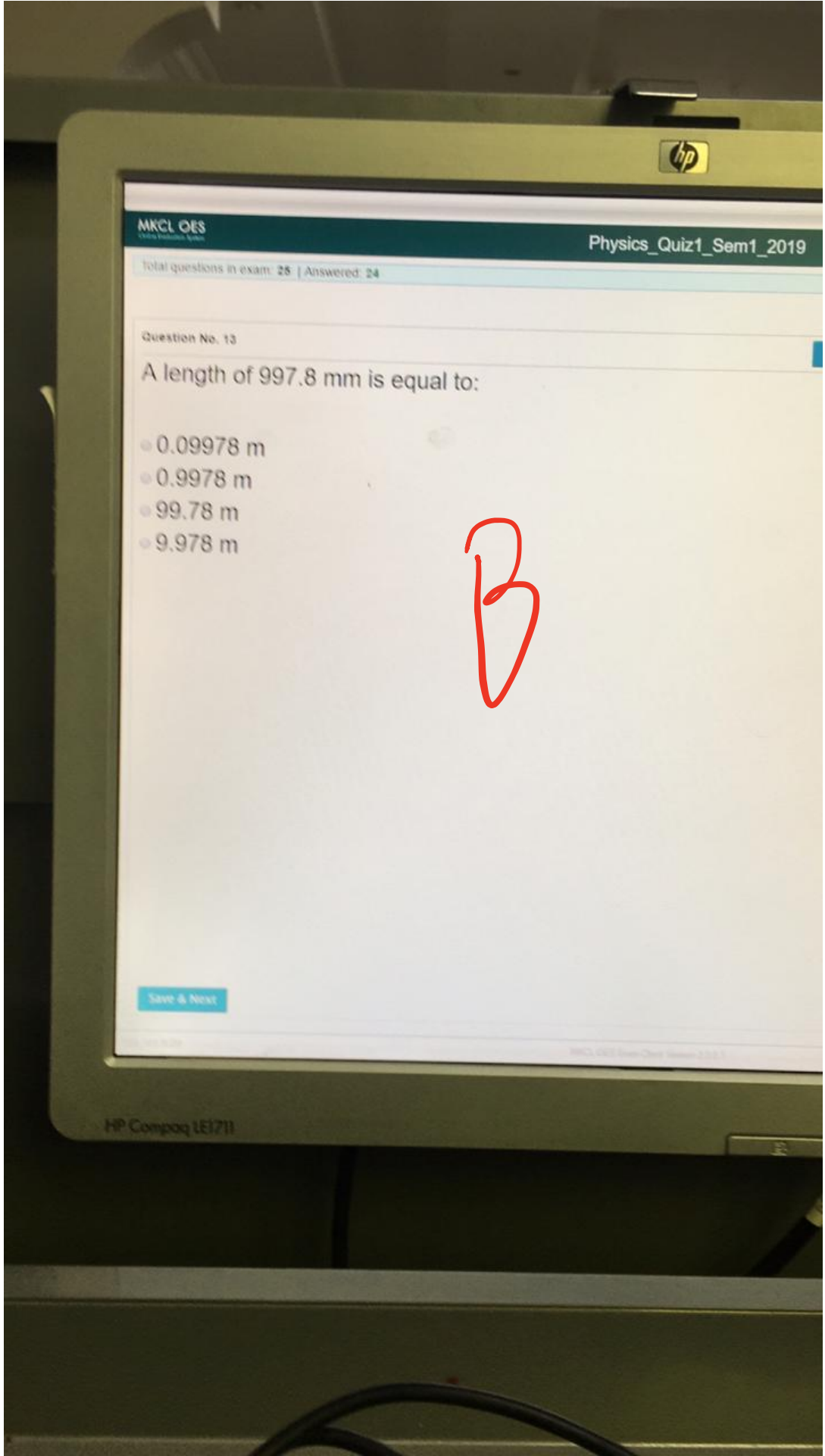
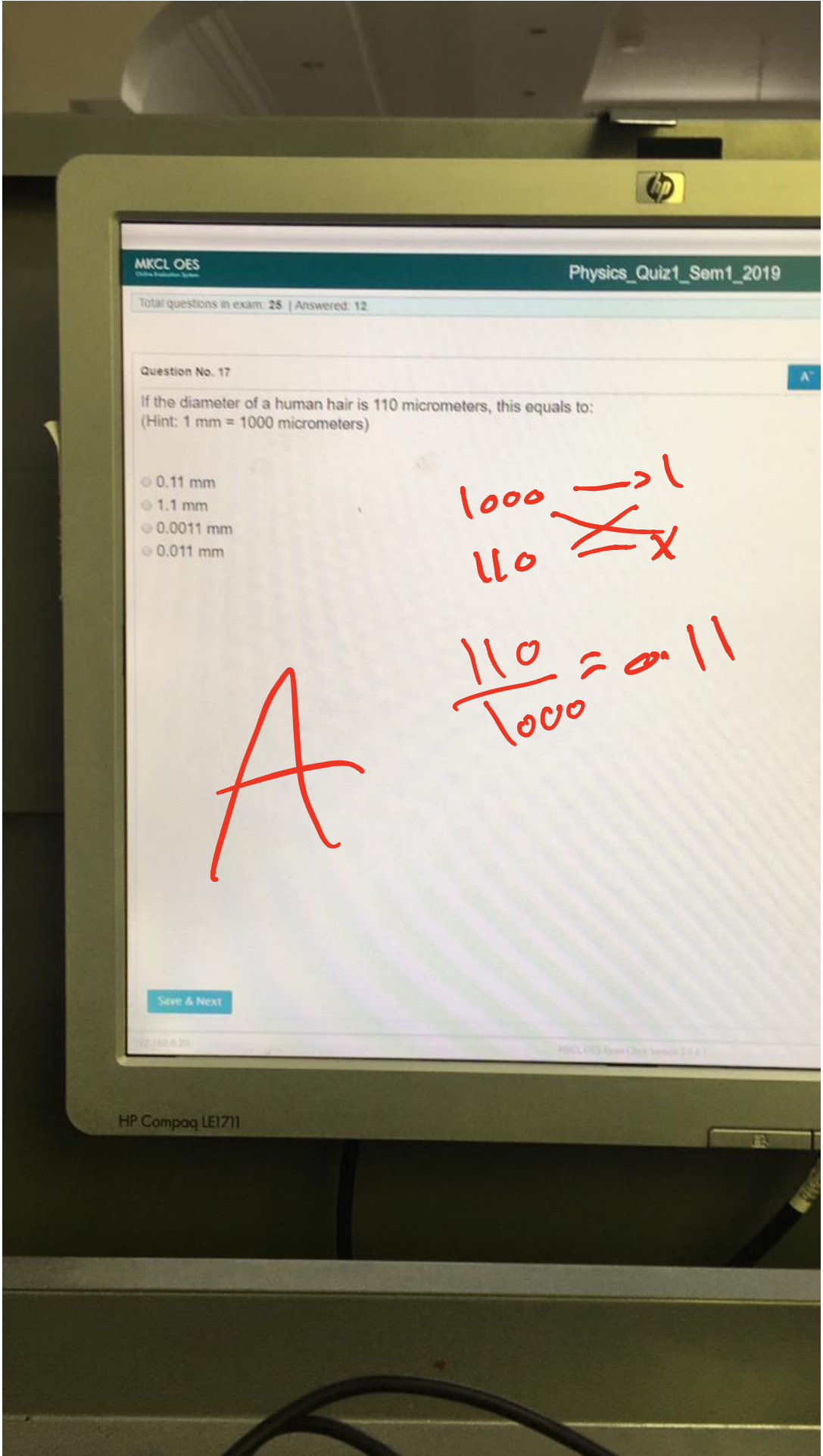
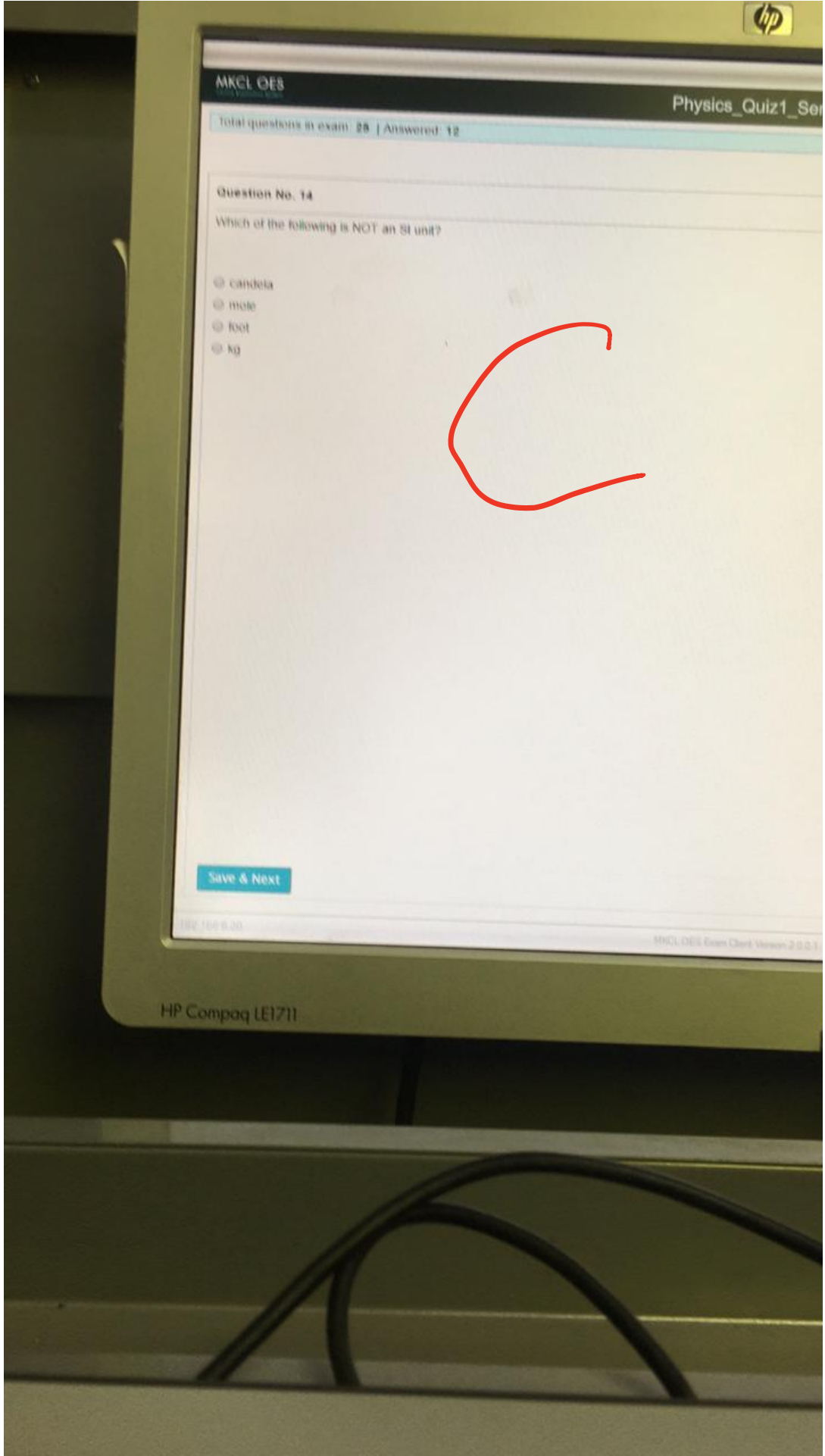

MKCL OES
Physics_Quiz1_Sem1_2019
Question No. 24
If 1 μm = 1000 nm, then 100 nm equals:
1 μm
0.1 μm
0.001 μm
0.01 μm
1000 nm -> 1
100 -> x
100/1000 = 0.1 μm
B
Save & Next
HP Compaq LE1711


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 24
Question No. 13
A length of 997.8 mm is equal to:
0.09978 m
0.9978 m
99.78 m
9.978 m
B
Save & Next
HP Compaq LE1711


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 12
Question No. 17
If the diameter of a human hair is 110 micrometers, this equals to:
(Hint: 1 mm = 1000 micrometers)
0.11 mm
1.1 mm
0.0011 mm
0.011 mm
1000 —> 1
110 = x
110/1000 = 0.11
A
Save & Next
HP Compaq LE1711


MKCL OES
Physics_Quiz1_Se
Total questions in exam: 25 | Answered: 12
Question No. 14
Which of the following is NOT an SI unit?
candela
mole
foot
kg
Save & Next
HP Compaq LE1711

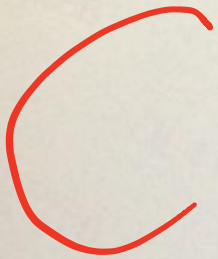
MKCL OES

Total questions in exam: **25** | Answered: **0**

Question No. 1

The number of decimal places in (0.52) is:

- 5
- 4
- 2
- 3



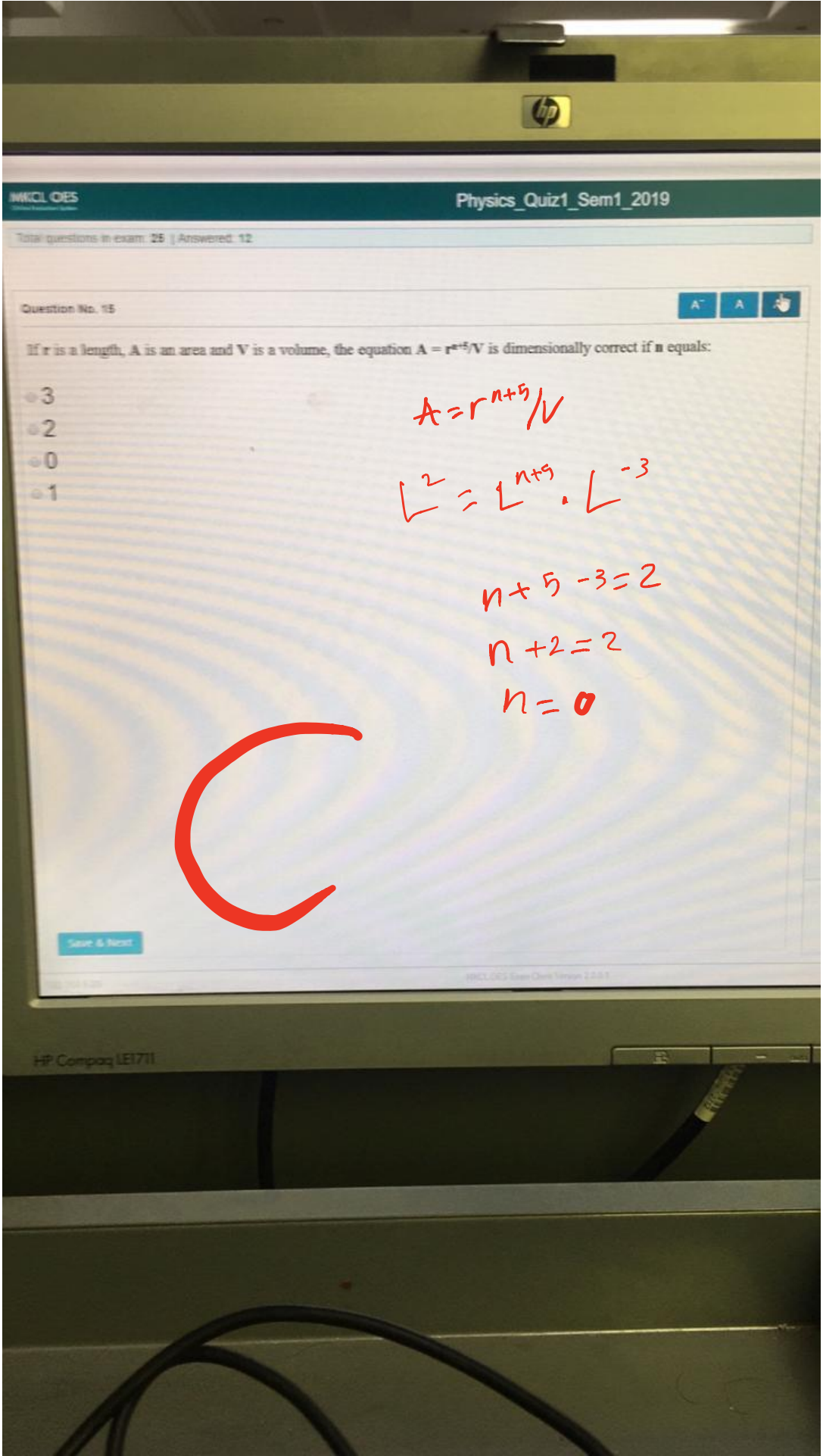
Question No. 2

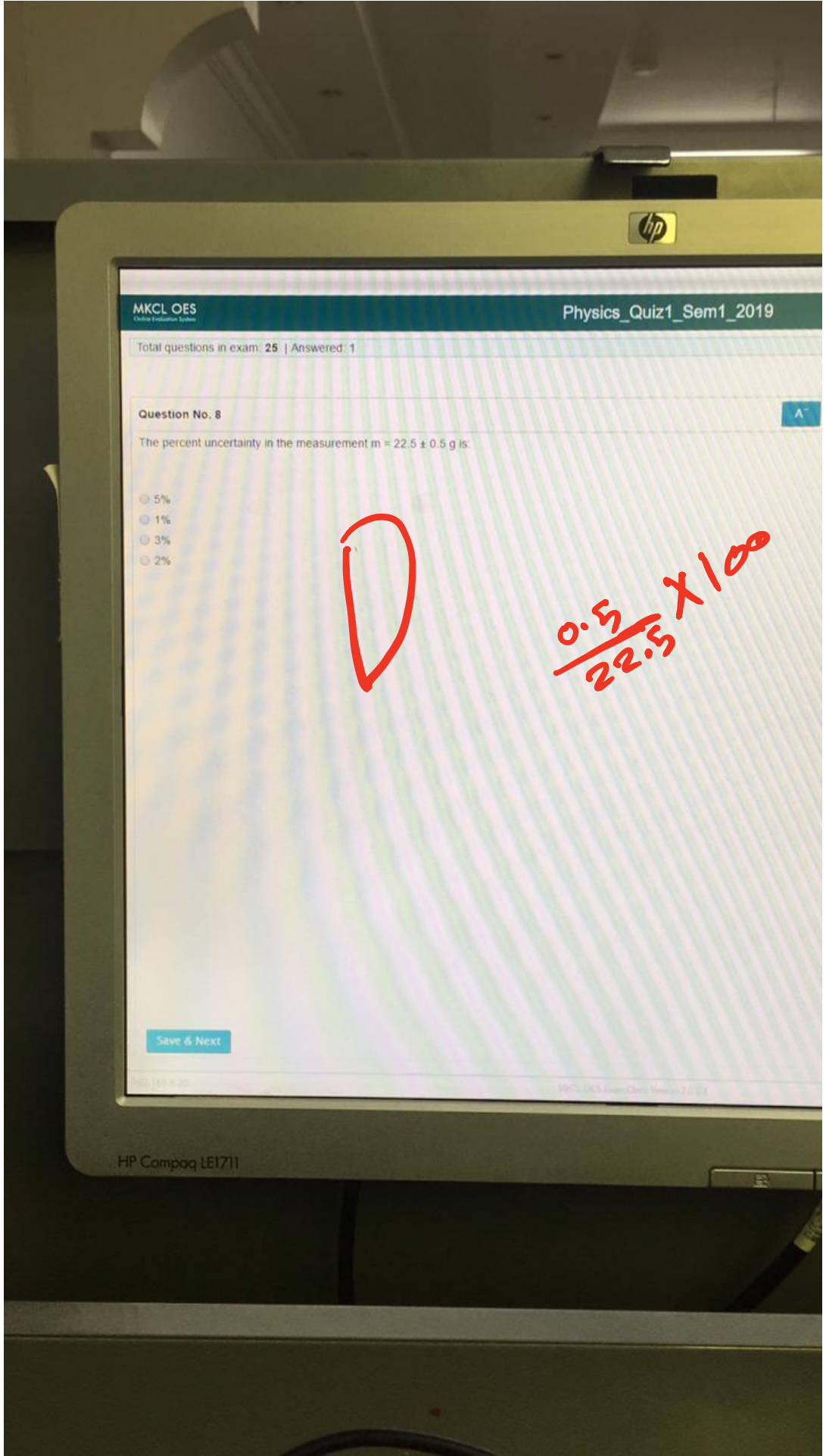
An object is pulled vertically up with two ropes. If the tension in the ropes are 330 N and 326 N, its horizontal component is.

- 4 N
- 656 N
- 330 N
- 0 N

ما فيه قوة غير الأعلى مأثرة فيه

ve & Next


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 12
Question No. 15
If r is a length, A is an area and V is a volume, the equation A = r^(n+5)/V is dimensionally correct if n equals:
3
2
0
1
A = r^(n+5)/V
L^2 = L^(n+5) . L^-3
n + 5 - 3 = 2
n + 2 = 2
n = 0
C
Save & Next
HP Compaq LE1711


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 1
Question No. 8
The percent uncertainty in the measurement m = 22.5 ± 0.5 g is:
5%
1%
3%
2%
D
0.5/22.5 X100
Save & Next
HP Compaq LE1711

MKCL OES
Online Evaluation System

Physics_Quiz1_Sem1_2019

Total questions in exam: **25** | Answered: **1**

Question No. 4

A⁻ A

Which of the following numbers has three significant figures:

- 0.220 3 S.F
- 220 2 S.F
- 0.022 2 S.F
- 0.2002 4 S.F

A

Save & Next

HP Compaq LE1711

MKCL OES

Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 24

Question No. 25

A⁻ A A⁺

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

- $L^{-1}T^{3}$
- TL
- L
- LT^{+2}

$LT^{-1} = \frac{T^2}{k} + LT^{-1}$ ✓

$= \frac{T^2}{L^{-1}T^{3}} +$

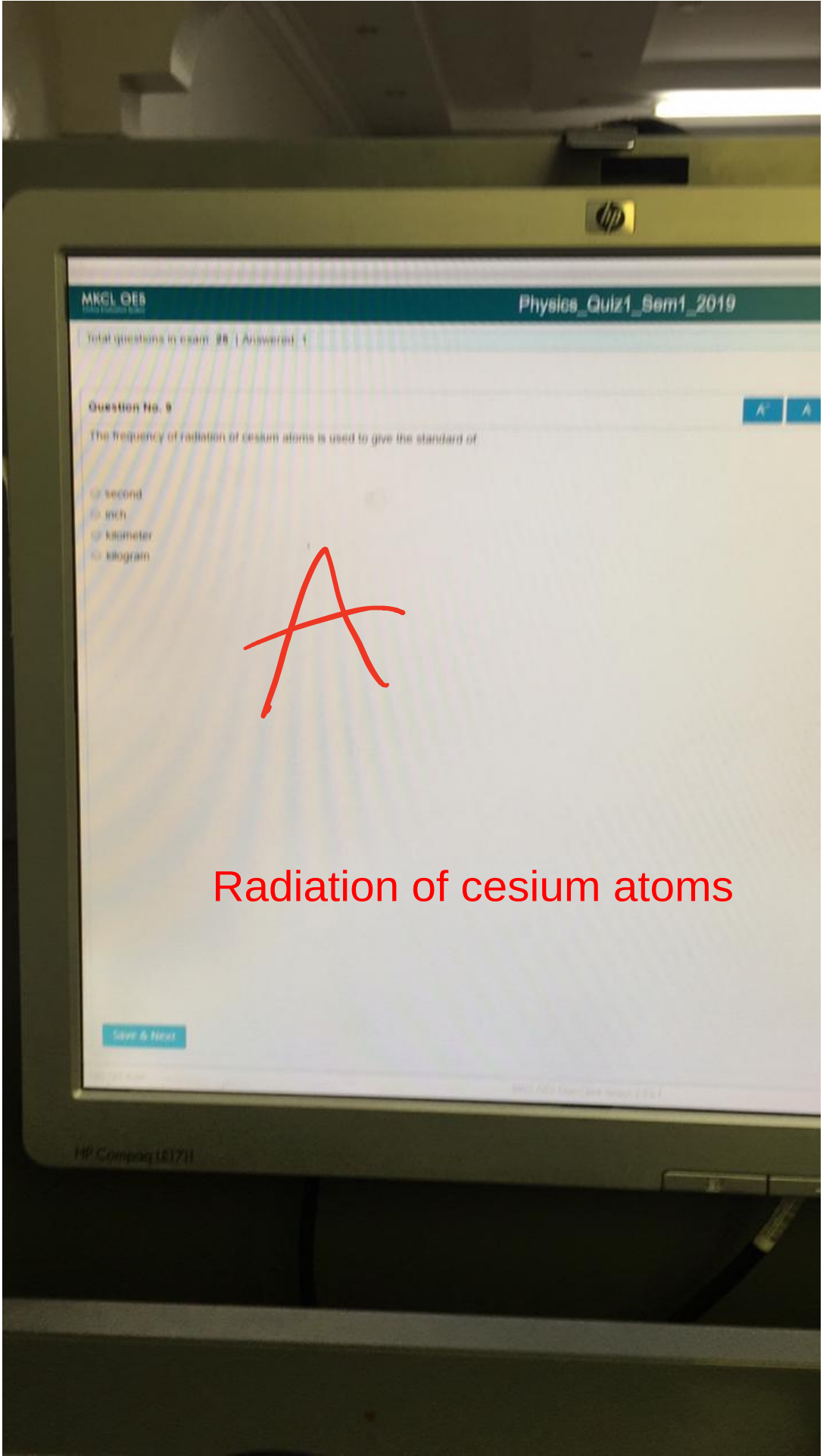
$= T^2 \cdot LT^{-3}$

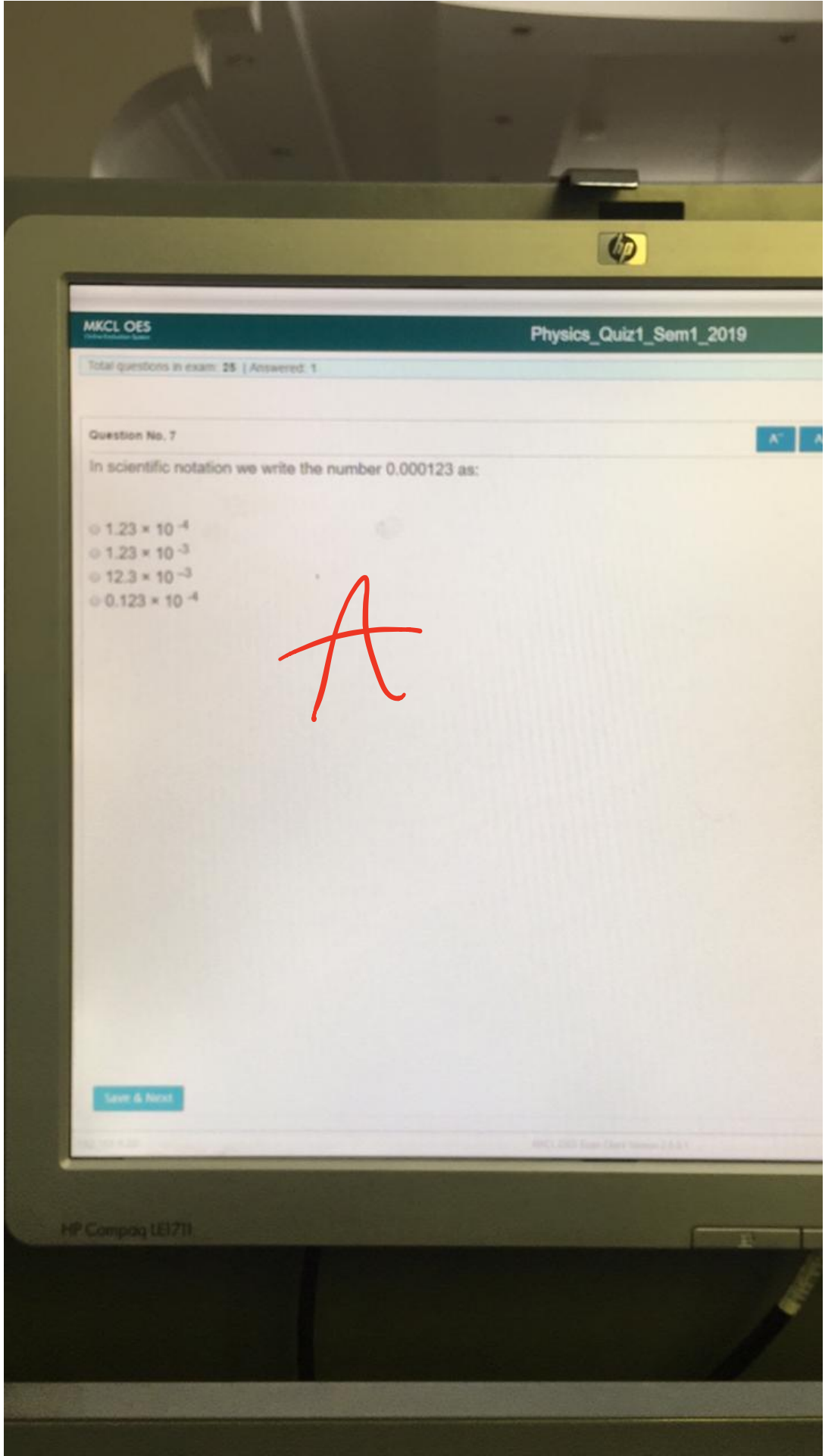
$LT^{-1} = T^{-1}L + LT^{-1}$ ✓

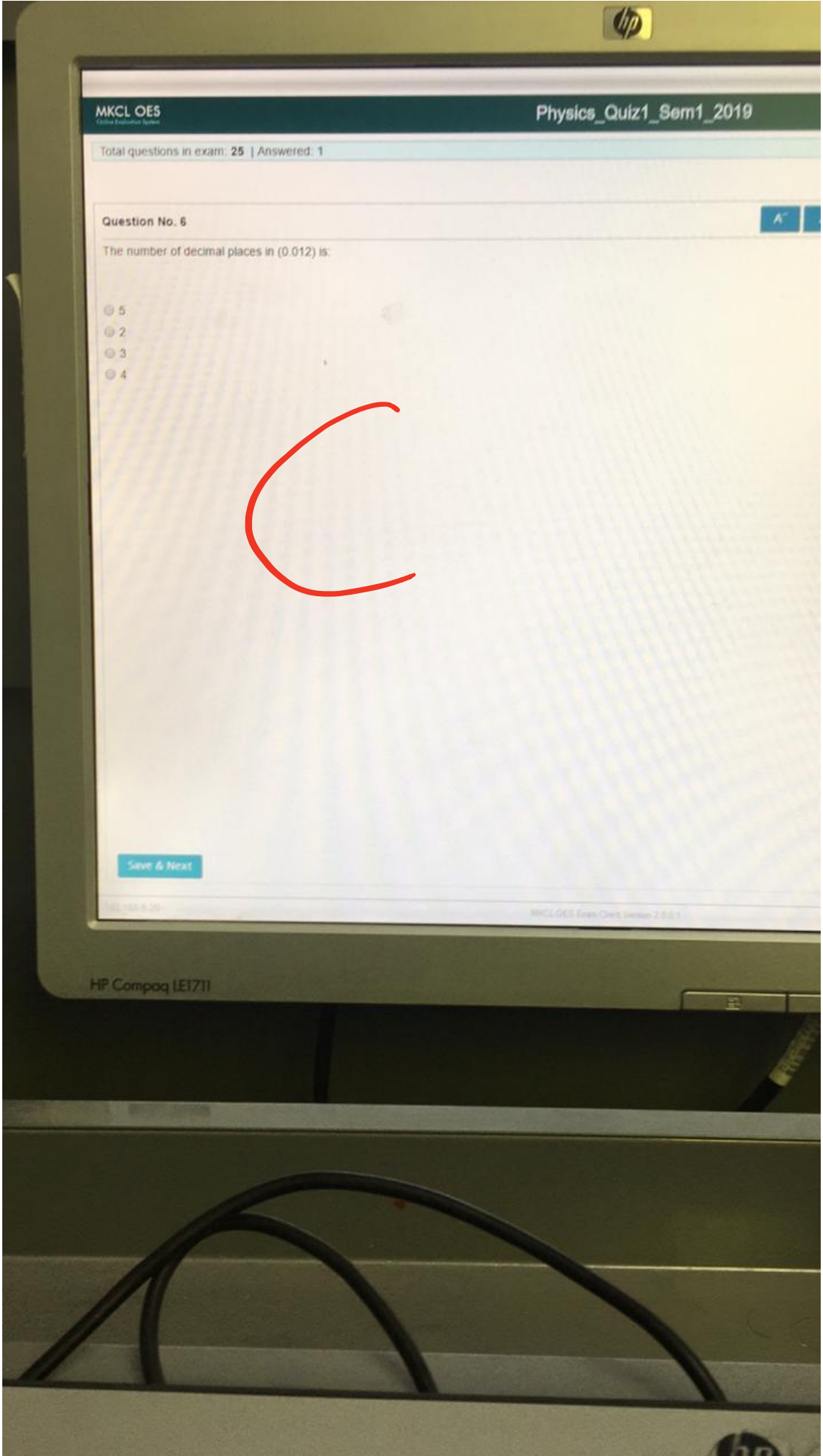
A

Save & Next

Compaq LE1711


MKCL OES
Physics_Quiz1_Sem1_2019
Question No. 9
The frequency of radiation of cesium atoms is used to give the standard of
second
inch
kilometer
kilogram
A
Radiation of cesium atoms
Save & Next


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 1
Question No. 7
In scientific notation we write the number 0.000123 as:
1.23 × 10 -4
1.23 × 10 -3
12.3 × 10 -3
0.123 × 10 -4
A
Save & Next
HP Compaq LE1711


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 1
Question No. 6
The number of decimal places in (0.012) is:
5
2
3
4
Save & Next
HP Compaq LE1711

MKCL OES

Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 1

Question No. 2

A⁻ A A⁺

Taking significant figures into account, the area of a (2.5 cm × 2.0 cm) rectangle is correctly given as:

- 5.000 cm^2
- 5 cm^2
- 5.00 cm^2
- 5.0 cm^2

Save & Next

HP Compaq LE1711

MKCL OES

Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 12

Question No. 23

A⁻ A A⁺

A 7.5-g diamond is weighed on a scale of 0.1-g smallest division. The weight that is correct within the scale's precision is:

- 6.7 g
- 7.2 g
- 7.9 g
- 7.4 g

D

مرة اجمع الايرور ومرة أطرحو

$7.5 \xrightarrow{+0.1} 7.6$

$7.4 \xleftarrow{-0.1} 7.5$

والي بالخياري يجيلكم اختاروه ن

Save & Next

HP Compaq LE1711

MKCL OES

Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 1

Question No. 12

How long does it take for an object travelling with an acceleration of 3 m/s/s in straight line to increase its speed uniformly from 3 m/s to 30 m/s

t ?

- 9 s
- 1 s
- 81 s
- 3 s

A

$3 = \frac{30-3}{t}$

$3 = \frac{27}{t}$

$\frac{27}{3} = \frac{3t}{3}$

$t = 9\,s$

Save & Next

HP Compaq LE1711

MKCL OES

Physics_Quiz1_Sem1_2019

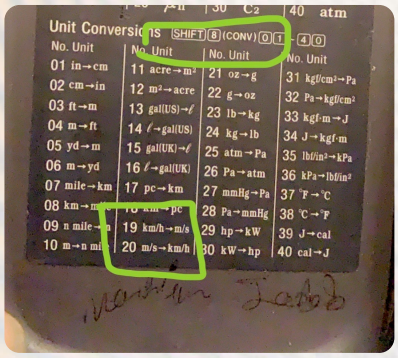
Total questions in exam: 25 | Answered: 1

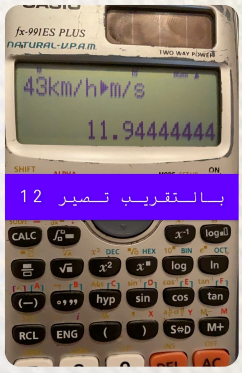
Question No. 11

A Dodge car has an acceleration of 43 (km/h)/s. This equals:

- 7 m/s/s
- 12 m/s/s
- 21 m/s/s
- 43 m/s/s

هنيي حولوها بالحاسبة





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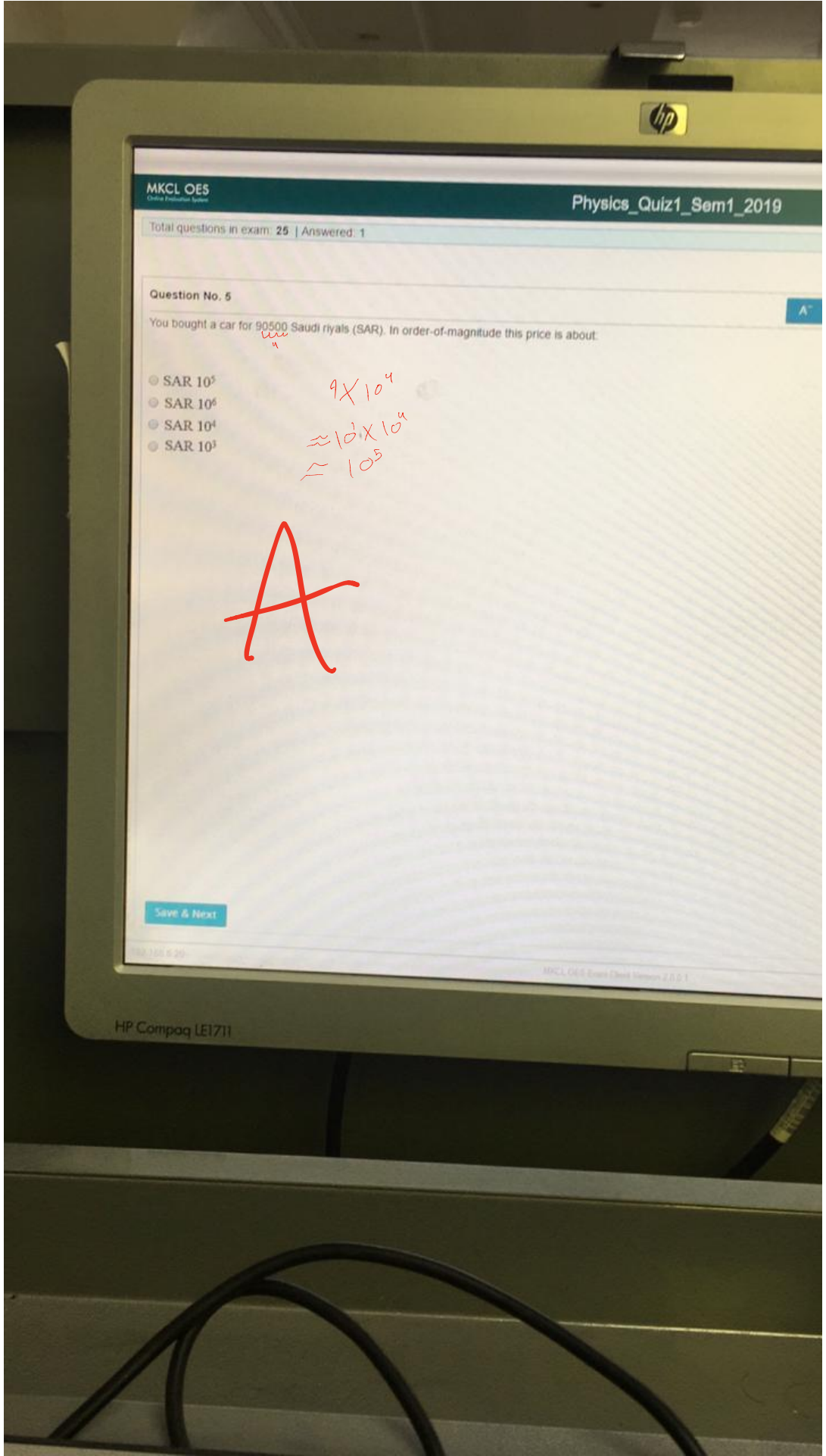
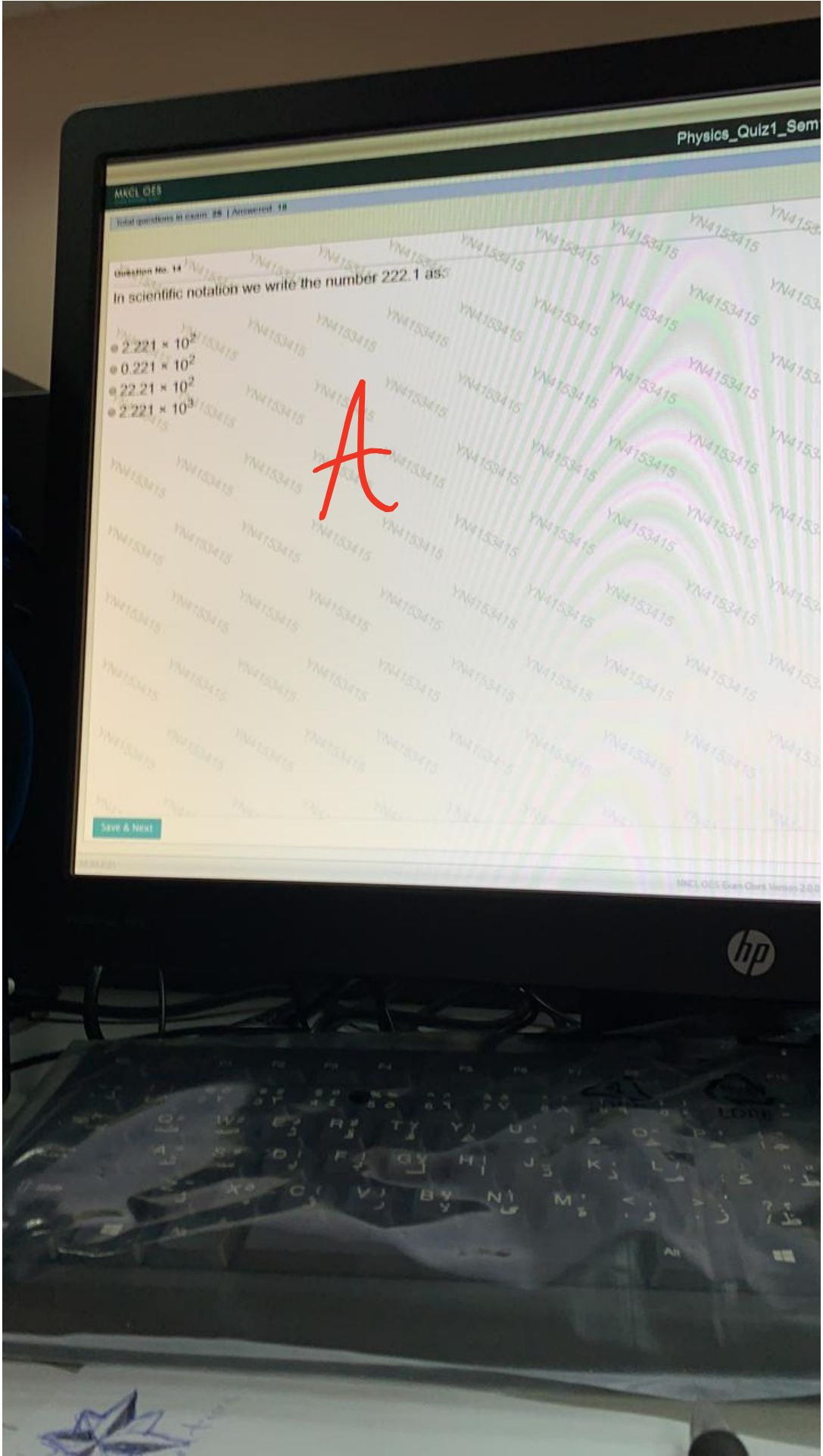
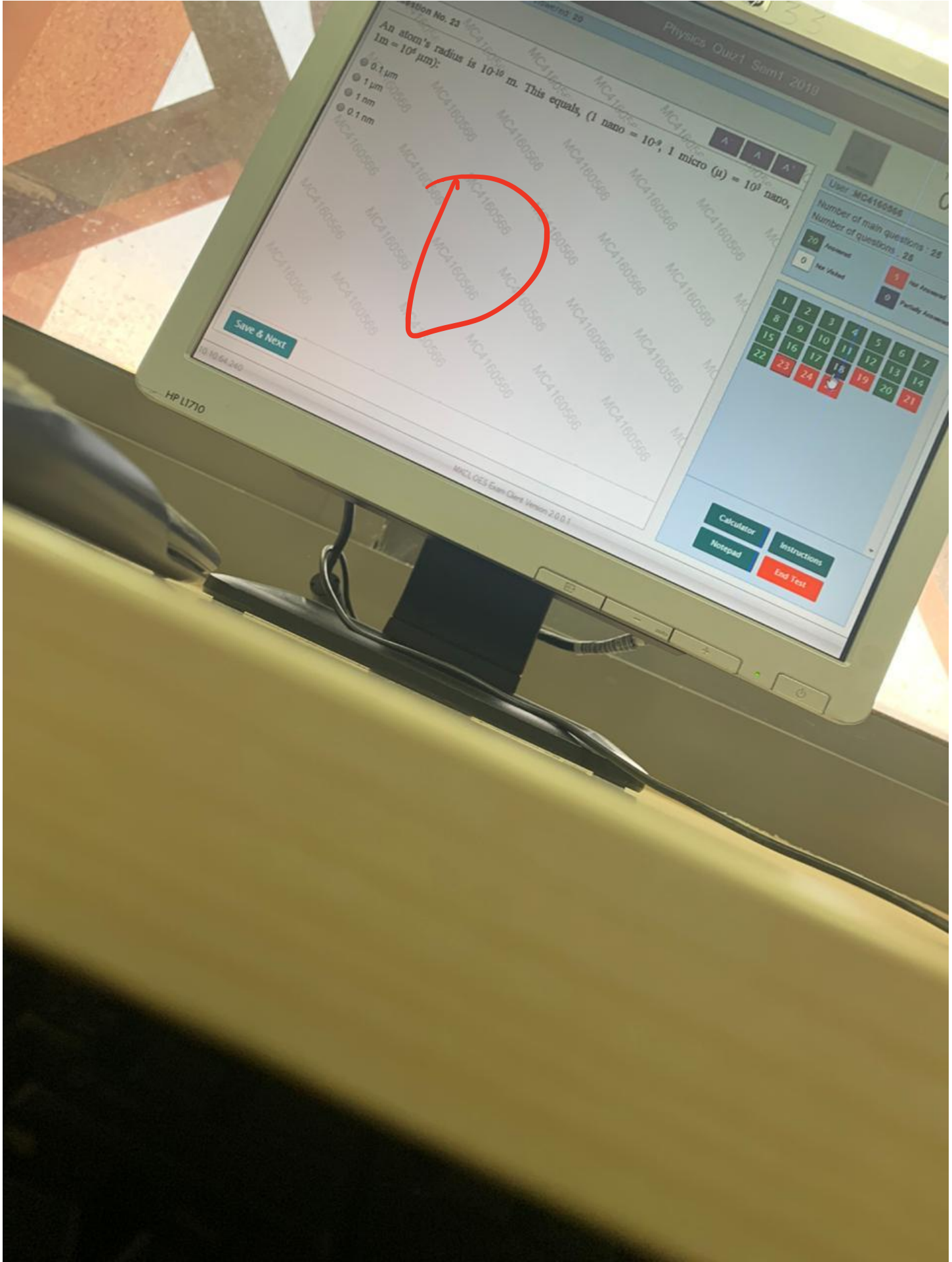
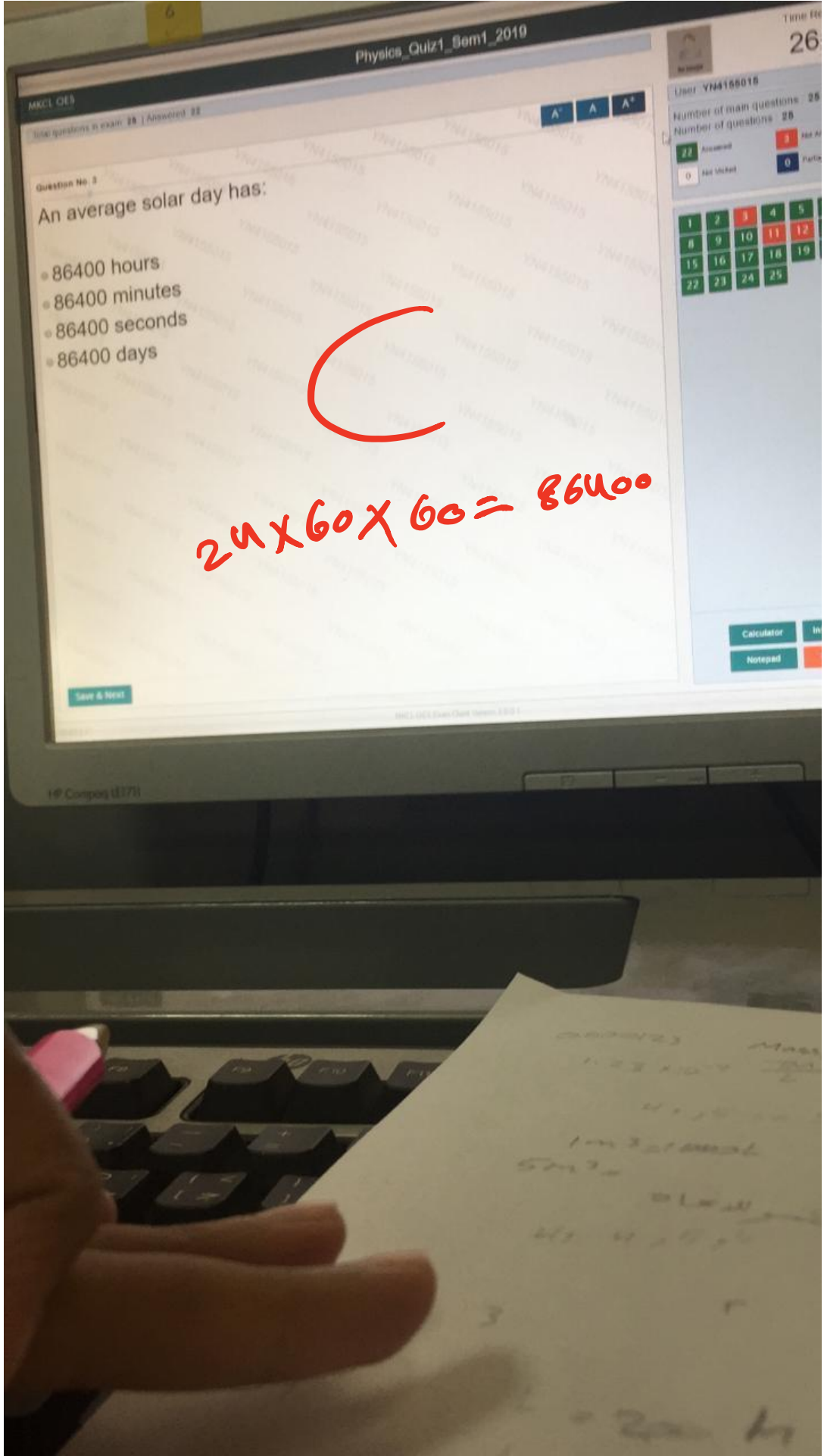
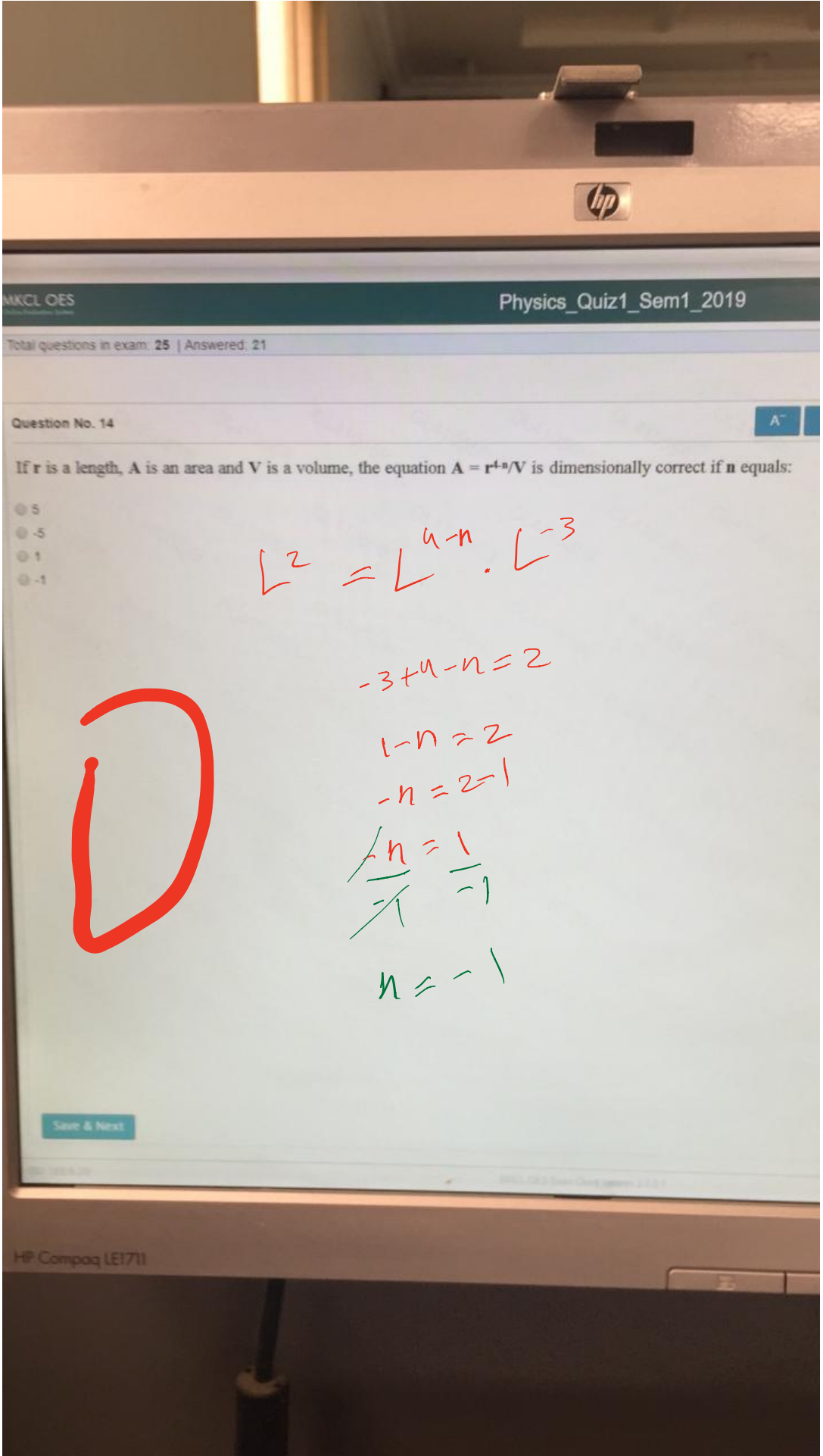
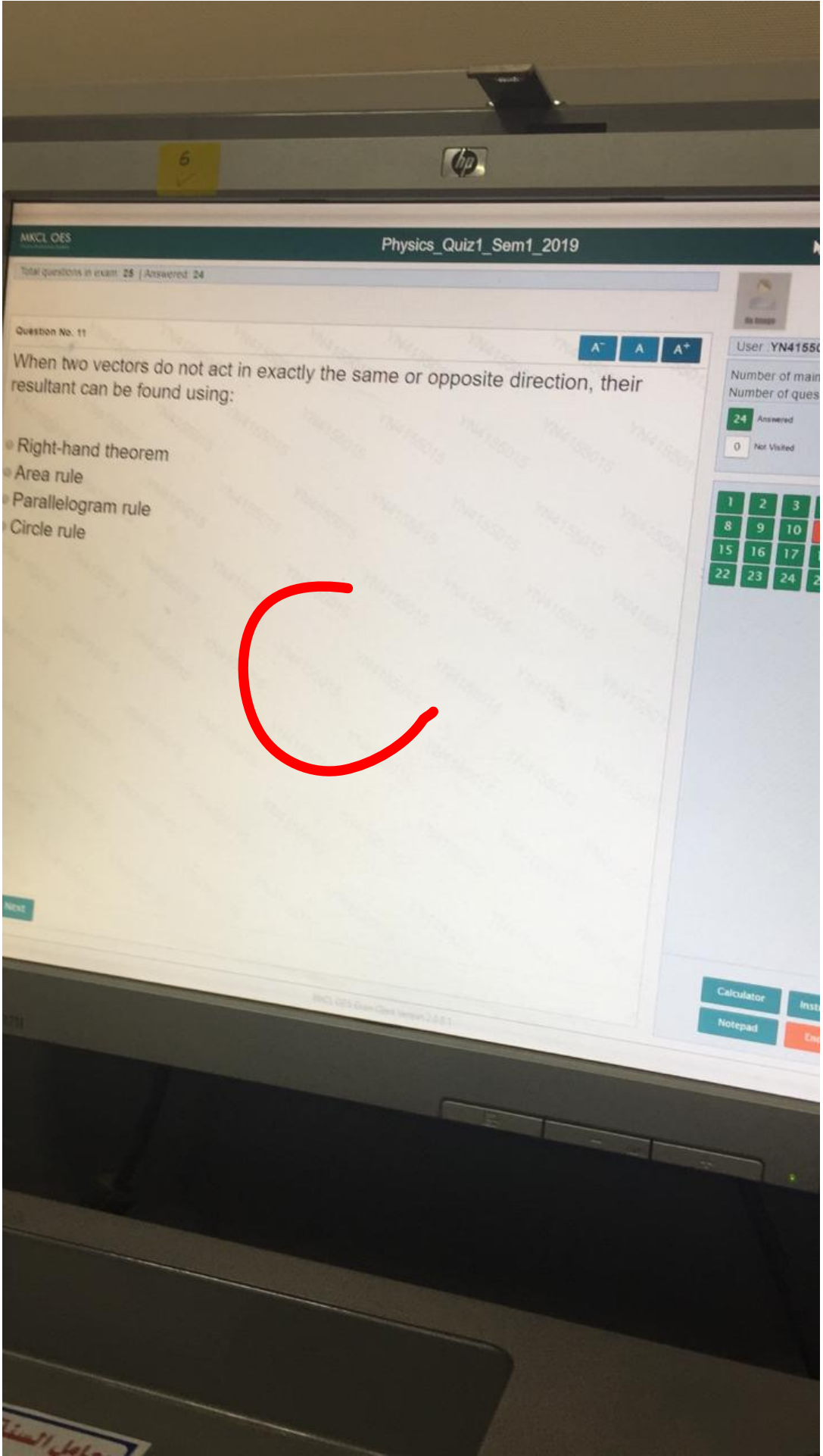

MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 1
Question No. 5
You bought a car for 90500 Saudi riyals (SAR). In order-of-magnitude this price is about:
SAR 10^5
SAR 10^6
SAR 10^4
SAR 10^3
9×10^4
$\approx 10^1 \times 10^4$
$\approx 10^5$
A
Save & Next
HP Compaq LE1711

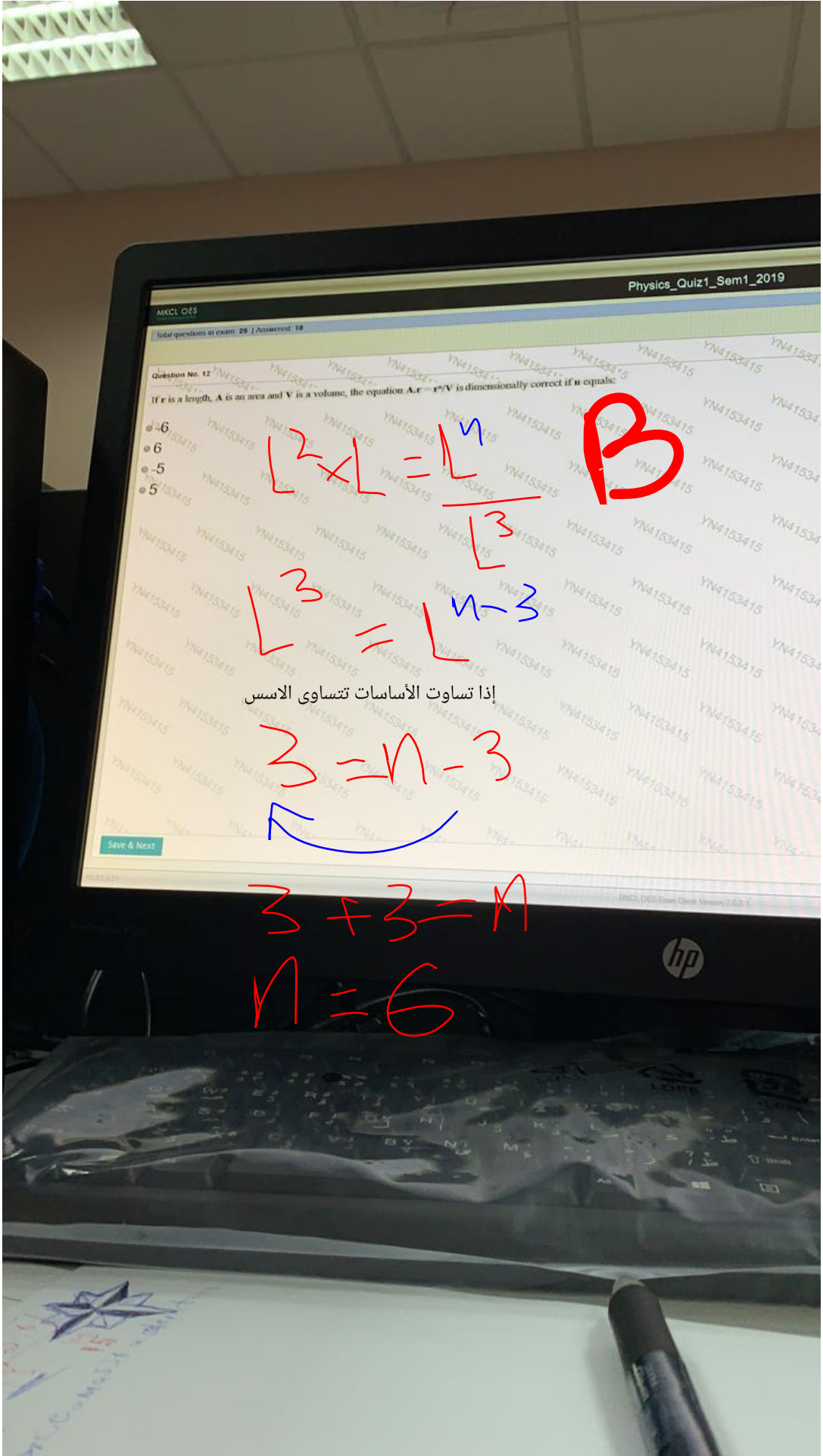

Physics_Quiz1_Sem
MCQ OES
Question No. 14
In scientific notation we write the number 222.1 as:
2.221×10^2
0.221×10^2
22.21×10^2
2.221×10^3
A
Save & Next

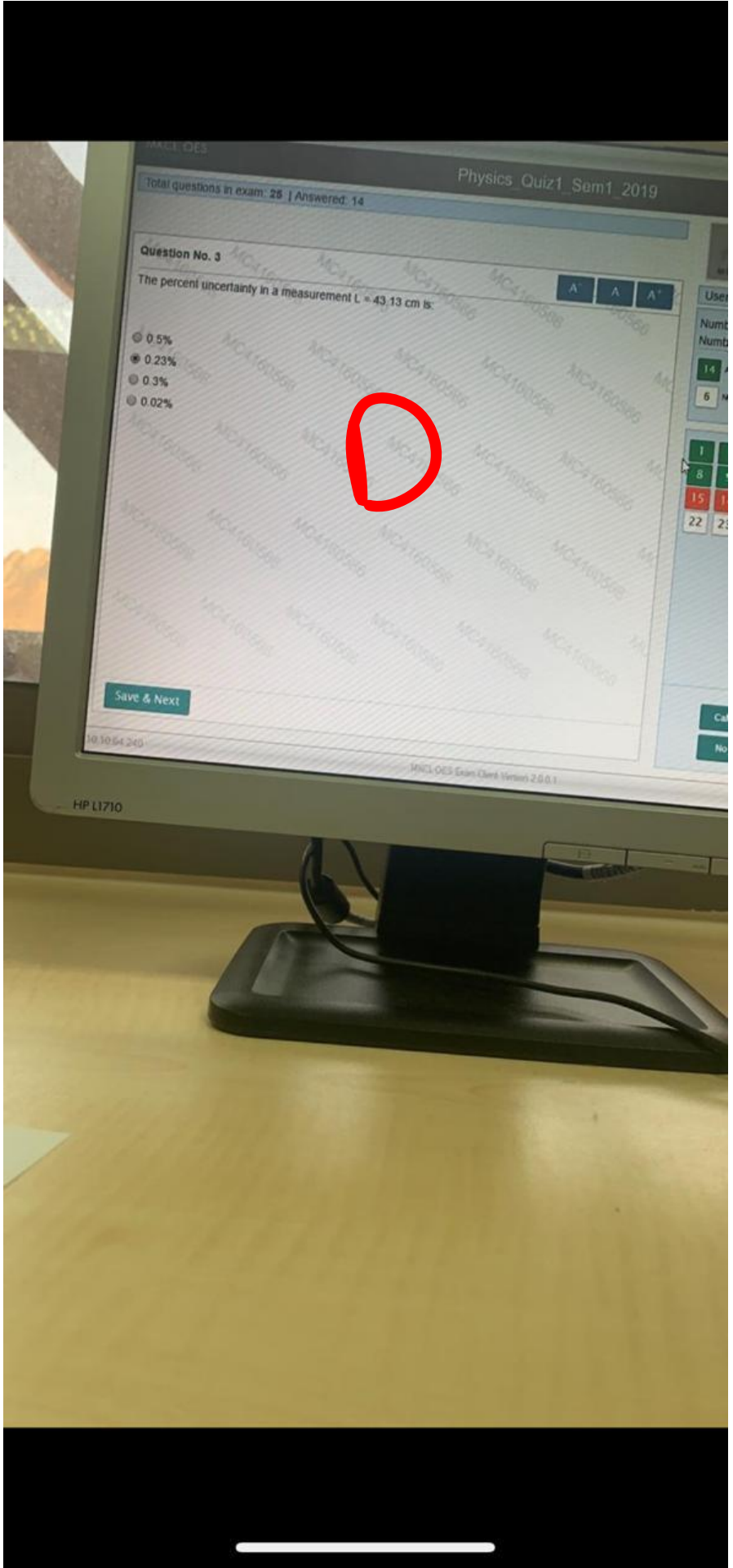

Physics Quiz1 Sem1 2019
Question No. 23
An atom's radius is 10^{-10} m. This equals, (1 nano = 10^{-9}; 1 micro (μ) = 10^{-3} nano, 1m = 10^{6} μm):
0.1 μm
1 μm
1 nm
0.1 nm
D
Save & Next
Calculator
Notepad
Instructions
End Test
HP L1710

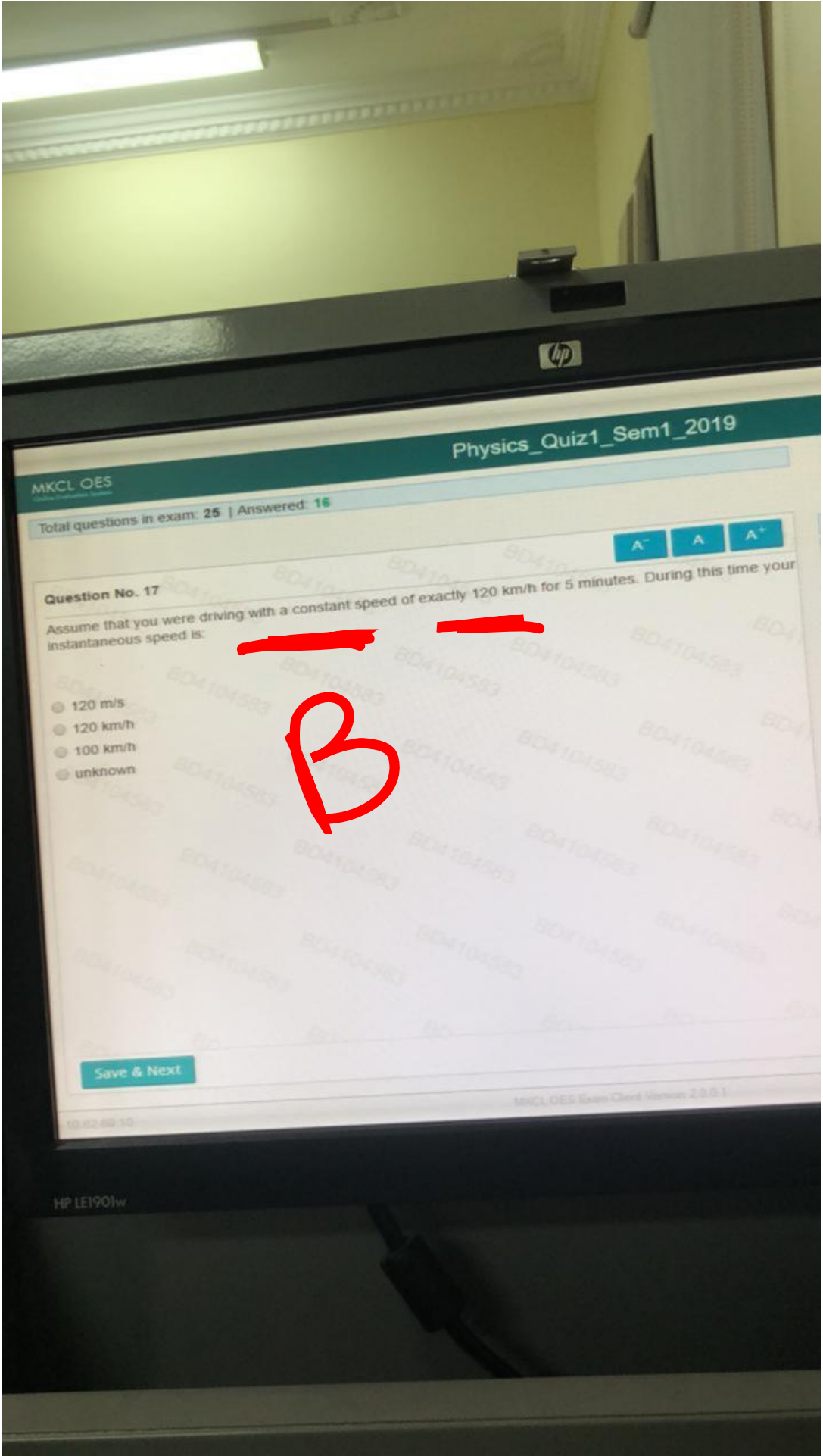

Physics_Quiz1_Sem1_2019
An average solar day has:
86400 hours
86400 minutes
86400 seconds
86400 days
C
24X60X60= 86400
Calculator
Notepad
Save & Next

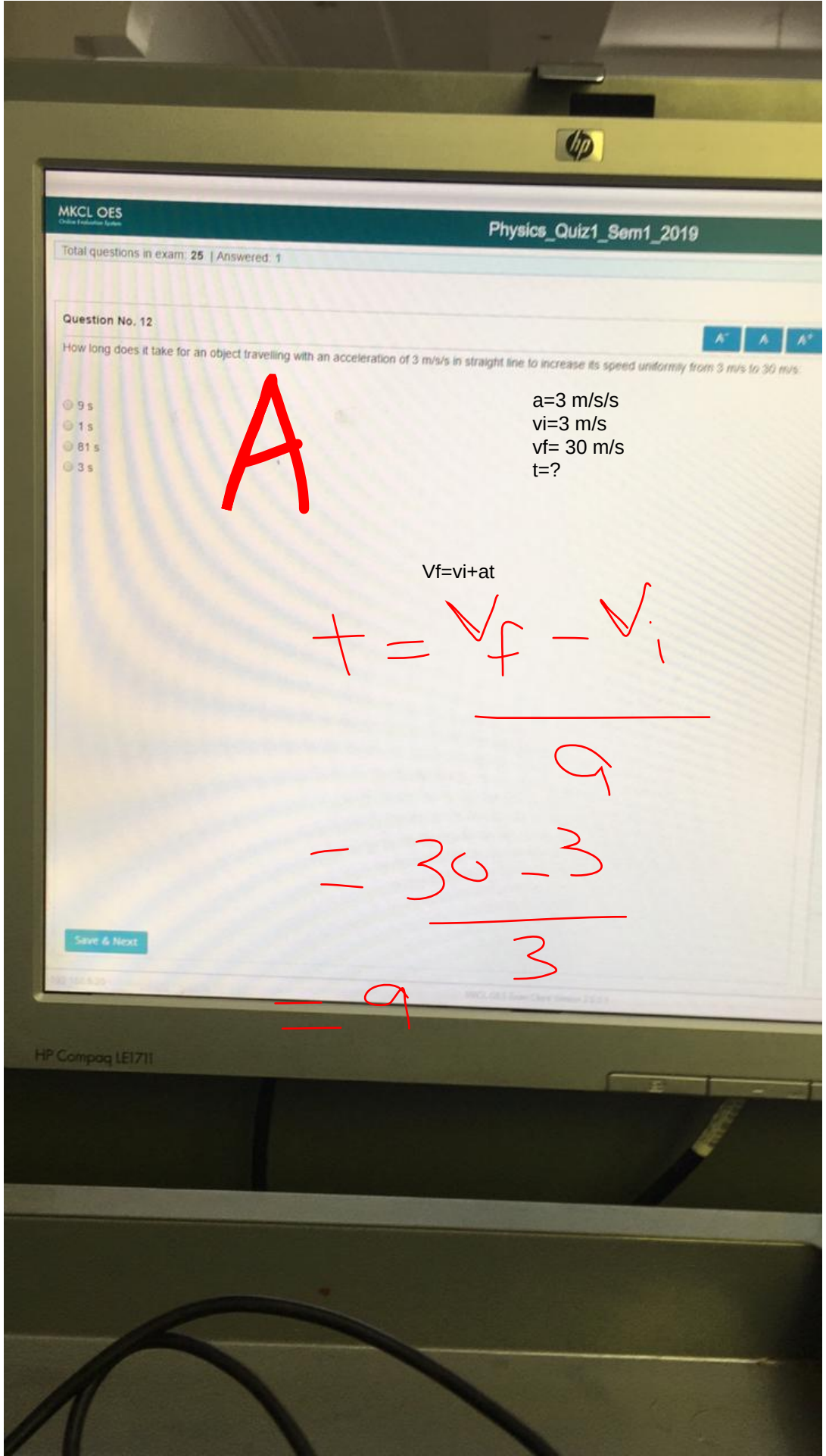

MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 21
Question No. 14
If r is a length, A is an area and V is a volume, the equation A = r^(1-n)/V is dimensionally correct if n equals:
5
-5
1
-1
L^2 = L^(4-n) . L^-3
-3+4-n=2
1-n=2
-n=2-1
-n=1
-1 -1
n=-1
D
Save & Next
HP Compaq LE1711

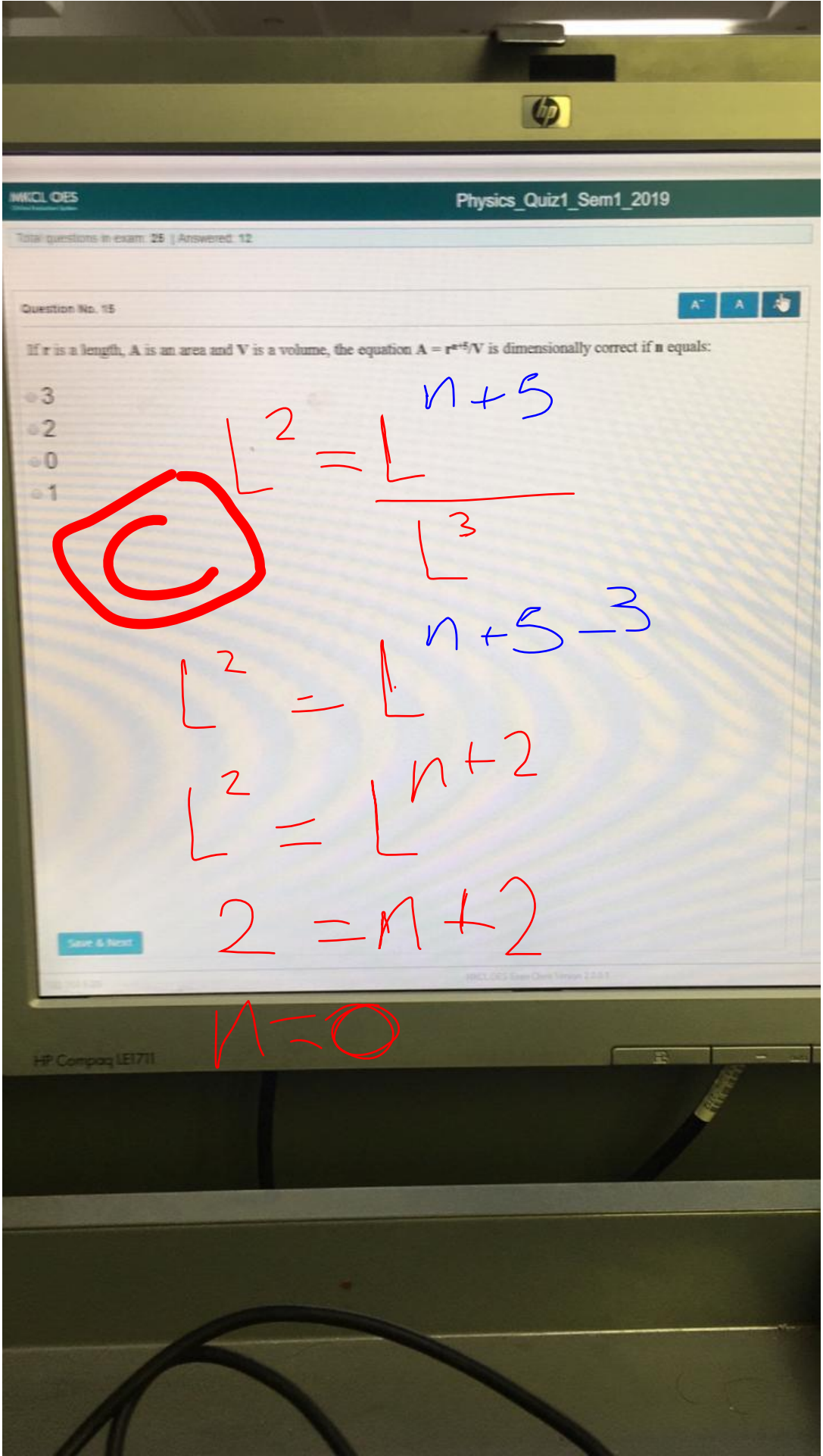

MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 24
Question No. 11
When two vectors do not act in exactly the same or opposite direction, their resultant can be found using:
Right-hand theorem
Area rule
Parallelogram rule
Circle rule
Next
Calculator
Notepad
24 Answered
0 Not Visited


Physics_Quiz1_Sem1_2019
MKCL OES
Question No. 12
If r is a length, A is an area and V is a volume, the equation A.r = r^n/V is dimensionally correct if n equals:
-6
6
-5
5
L^2 x L = L^n / L^3
B
L^3 = L^(n-3)
إذا تساوت الأساسات تتساوى الاسس
3 = n - 3
3 + 3 = n
n = 6
Save & Next


Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 14
Question No. 3
The percent uncertainty in a measurement L = 43.13 cm is:
0.5%
0.23%
0.3%
0.02%
Save & Next
HP L1710


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 16
A- A A+
Question No. 17
Assume that you were driving with a constant speed of exactly 120 km/h for 5 minutes. During this time your instantaneous speed is:
120 m/s
120 km/h
100 km/h
unknown
B
Save & Next
HP LE1901w


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 1
Question No. 12
How long does it take for an object travelling with an acceleration of 3 m/s/s in straight line to increase its speed uniformly from 3 m/s to 30 m/s
9 s
1 s
81 s
3 s
A
a=3 m/s/s
vi=3 m/s
vf= 30 m/s
t=?
Vf=vi+at
t = Vf - Vi / a
= 30 - 3 / 3
= 9
Save & Next
HP Compaq LE1711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If r is a length, A is an area and V is a volume, the equation A = r^(n+5)/V is dimensionally correct if n equals:
3
2
0
1
Save & Next
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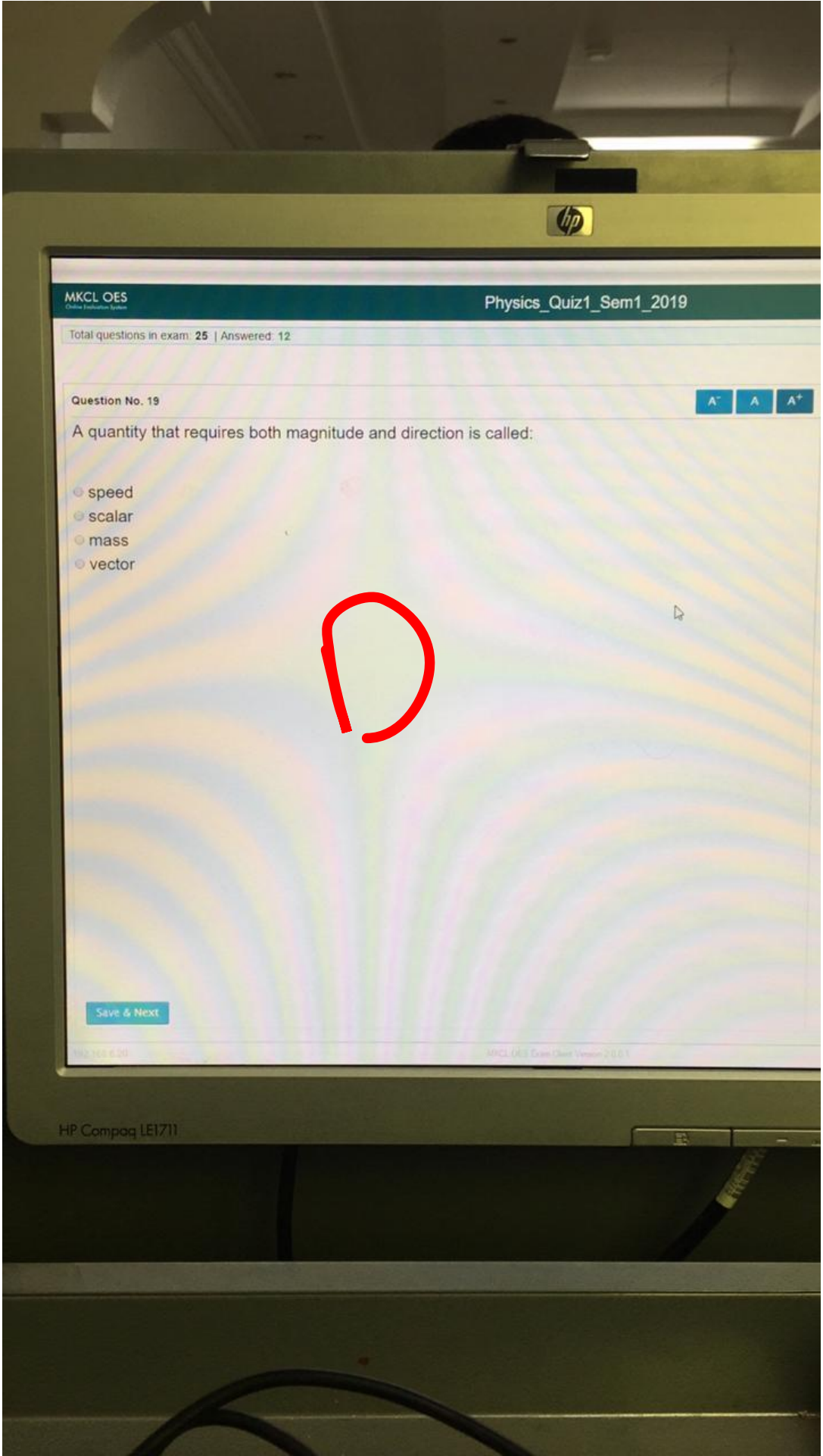
MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 12
Question No. 19
A quantity that requires both magnitude and direction is called:
speed
scalar
mass
vector
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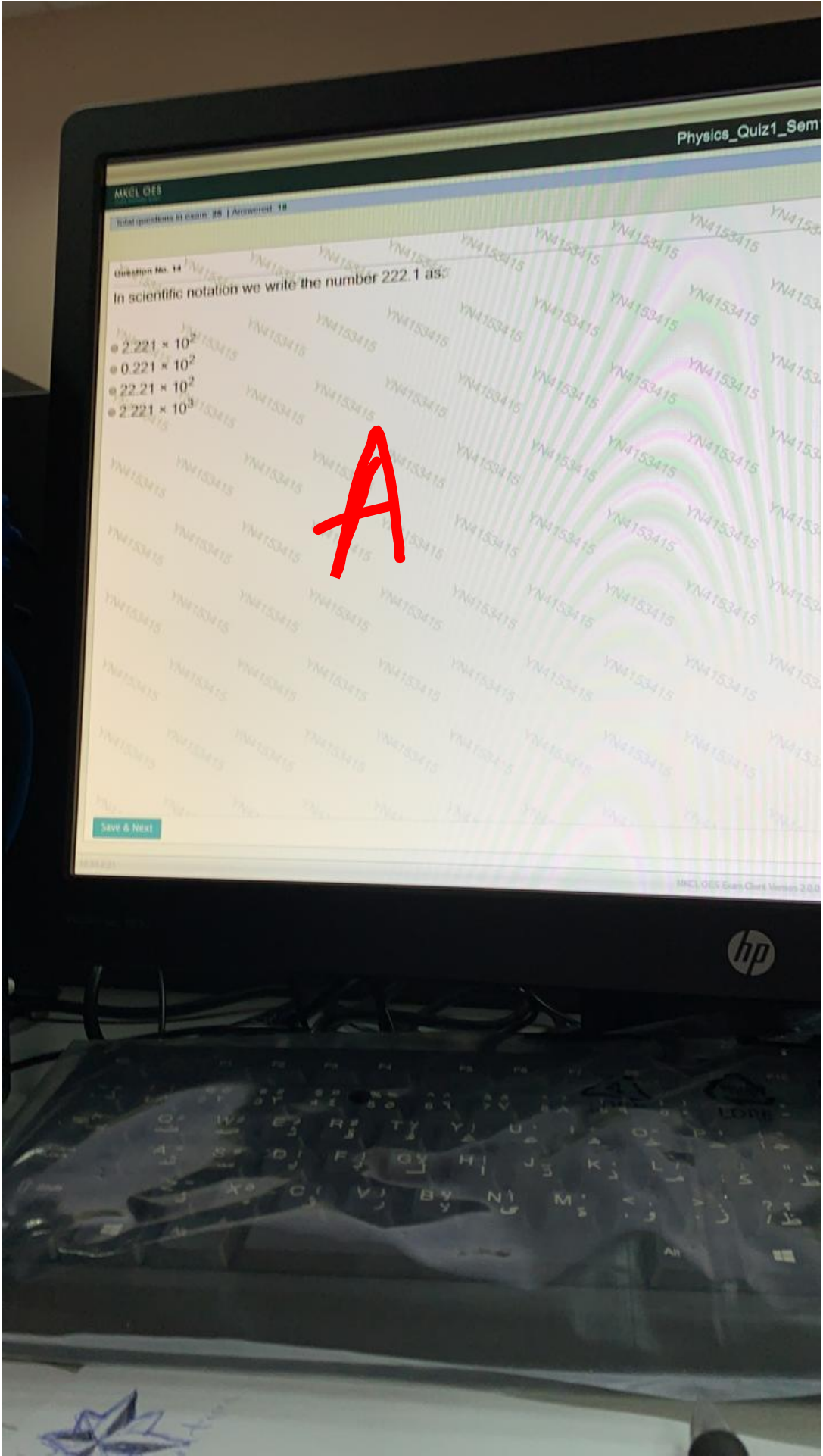
Physics_Quiz1_Sem
MCCL OES
Question No. 14
In scientific notation we write the number 222.1 as:
2.221×10^2
0.221×10^2
22.21×10^2
2.221×10^3
A
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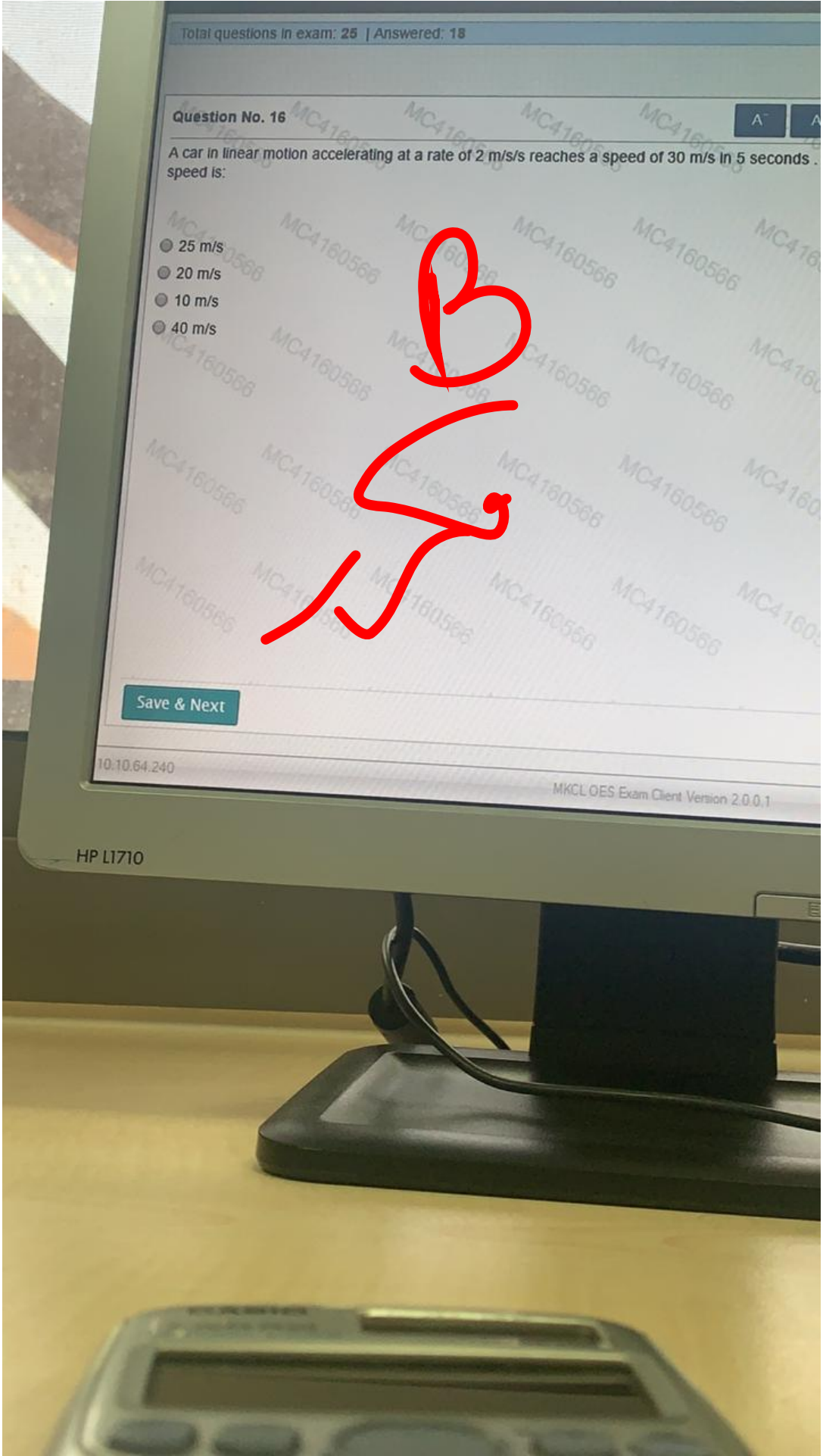
Total questions in exam: 25 | Answered: 18
Question No. 16
A car in linear motion accelerating at a rate of 2 m/s/s reaches a speed of 30 m/s in 5 seconds . speed is:
25 m/s
20 m/s
10 m/s
40 m/s
B
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Physics_Quiz1_Sem1_2019

Total questions in exam: 25 | Answered: 24

Question No. 25

A⁻ A A⁺

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

- $L^{-1}T^{3}$
- TL
- L
- LT^{+2}

A

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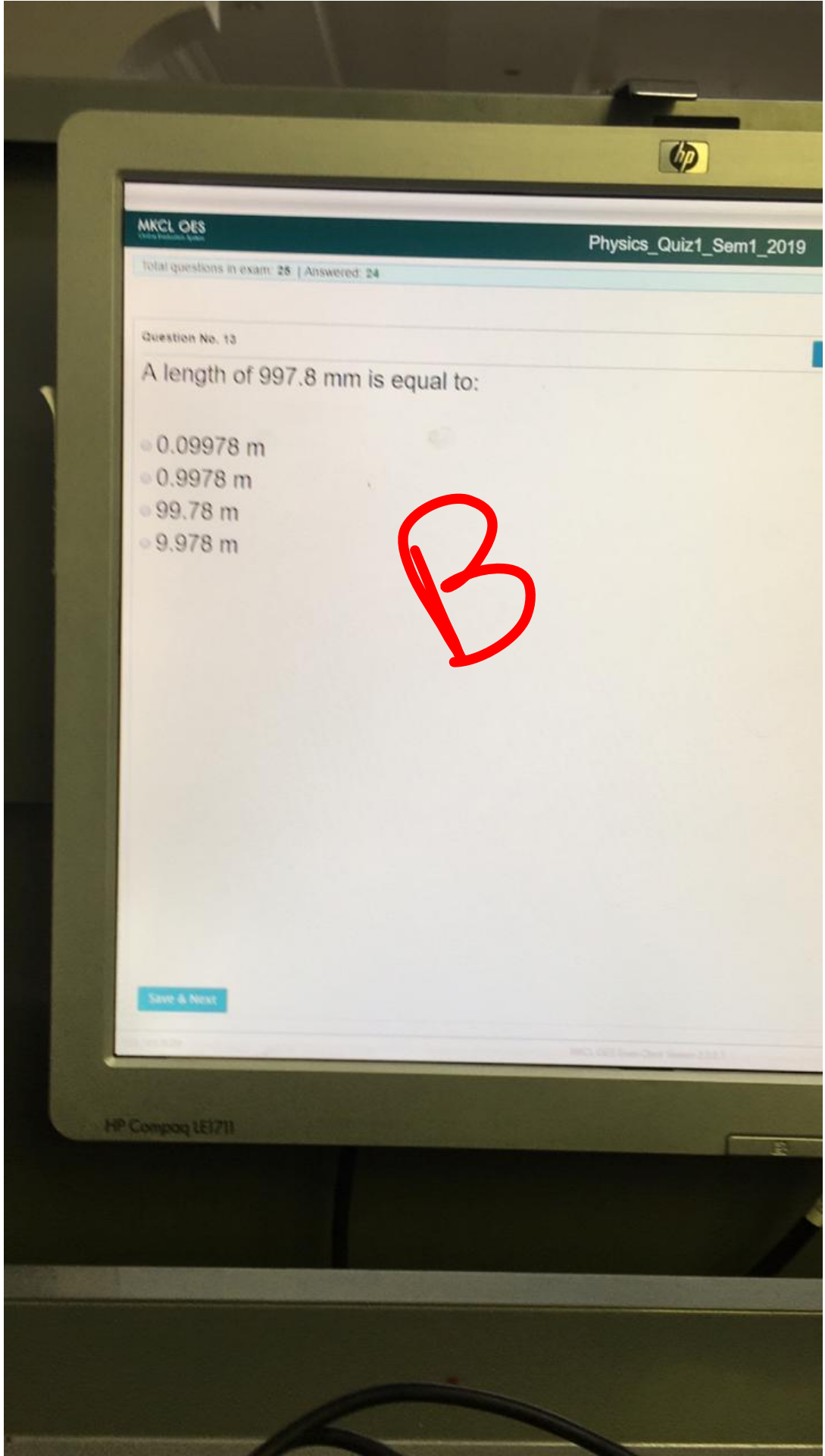
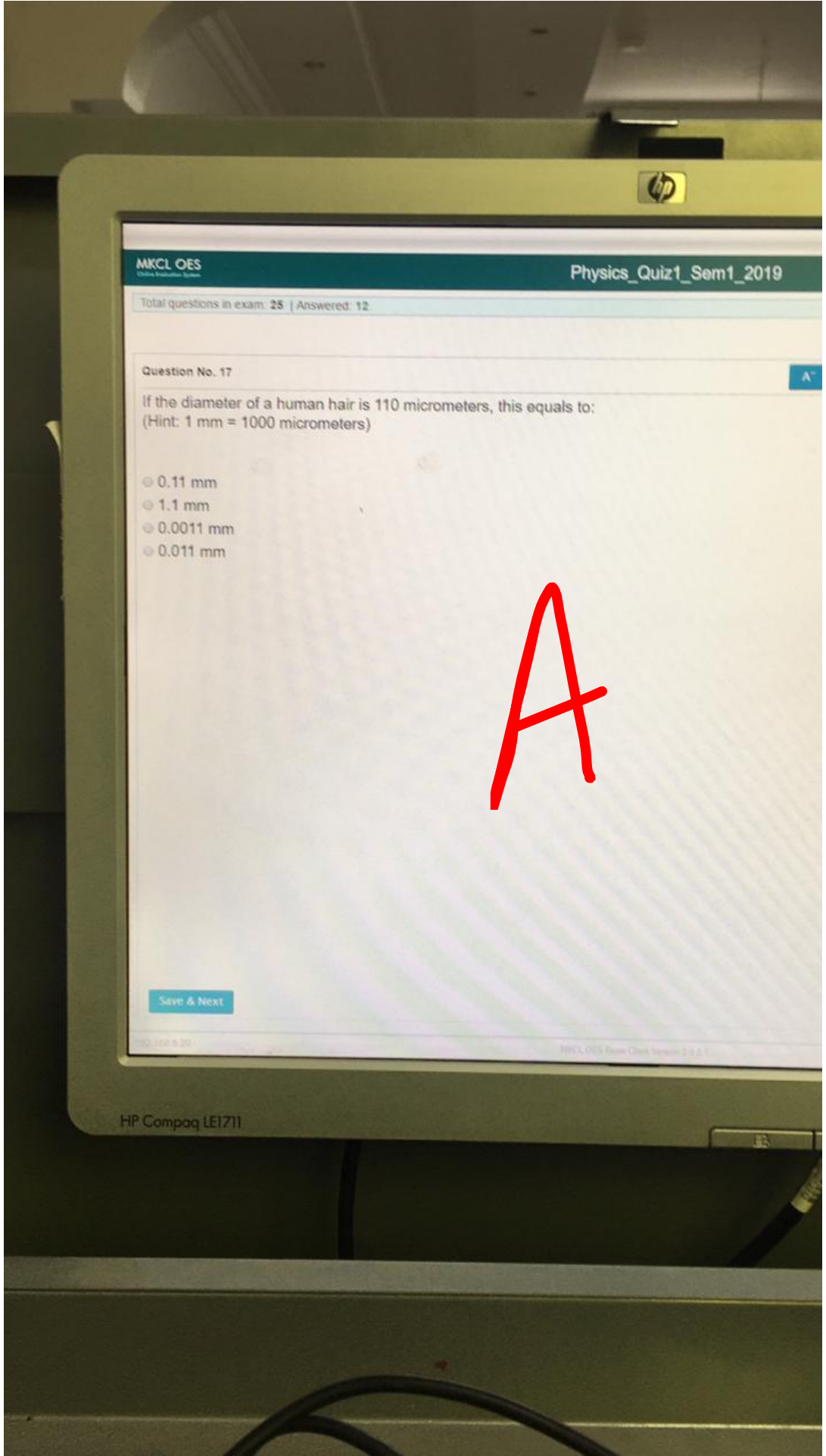

MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 24
Question No. 13
A length of 997.8 mm is equal to:
0.09978 m
0.9978 m
99.78 m
9.978 m
B
Save & Next
HP Compaq LE1711


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 12
Question No. 17
If the diameter of a human hair is 110 micrometers, this equals to:
(Hint: 1 mm = 1000 micrometers)
0.11 mm
1.1 mm
0.0011 mm
0.011 mm
A
Save & Next
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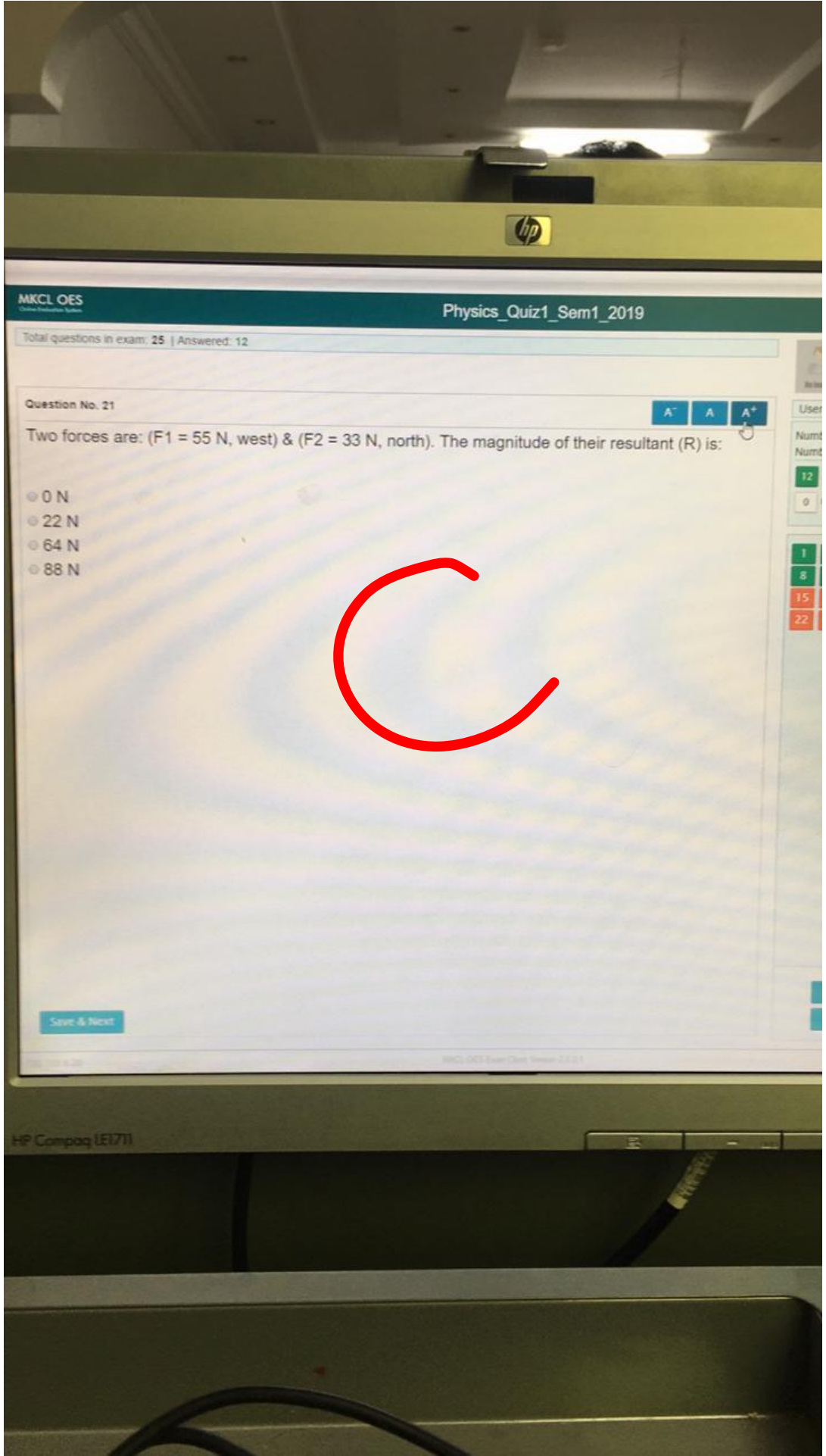
Total questions in exam: 25 | Answered: 16

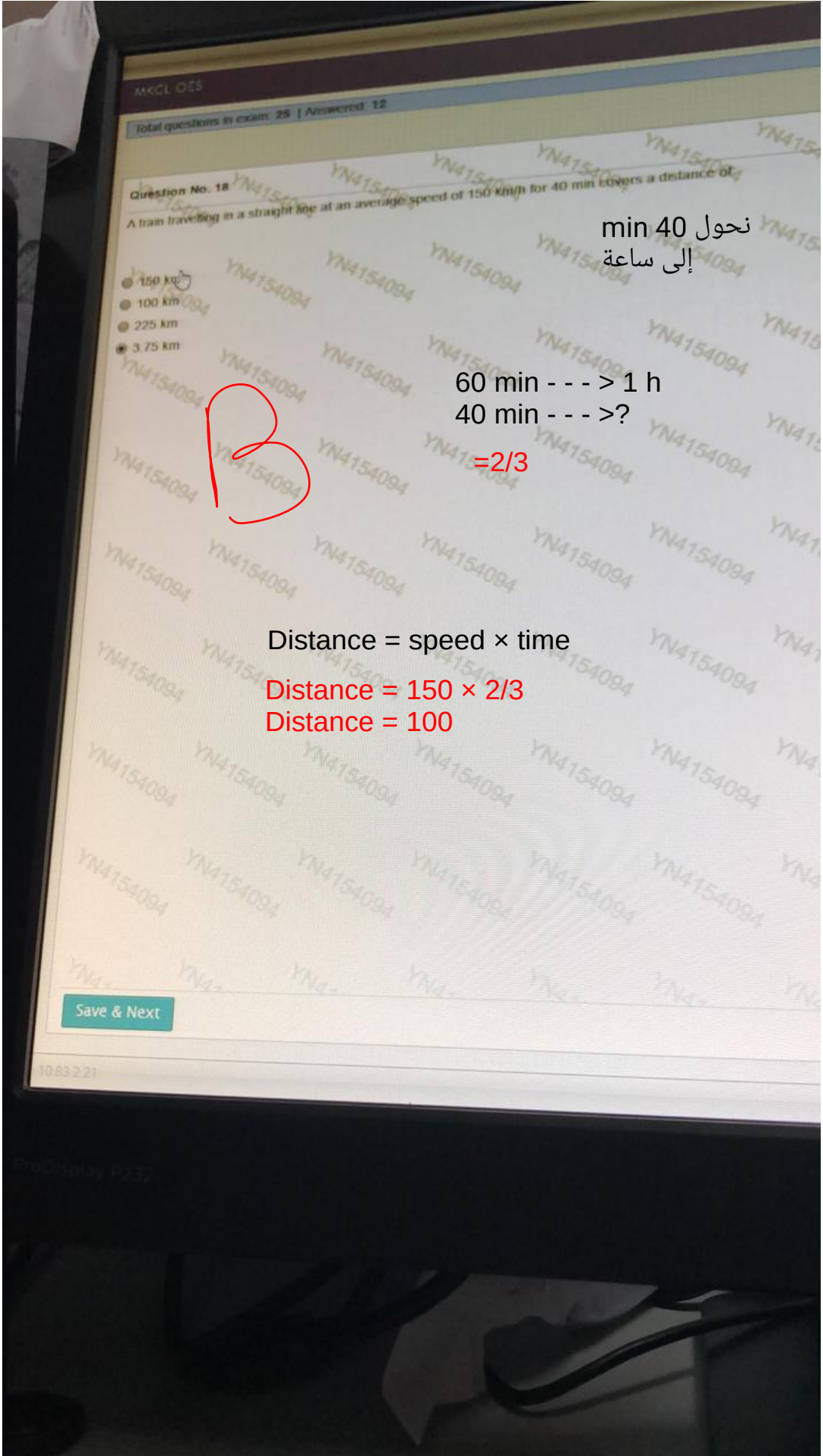
A⁻ A A⁺

Question No. 19

The distance from Madinah to Riyadh is measured to be accurately 830 km. The number of significant figures in this measurement is:

- 3
- 2
- 1
- 4


MKCL OES
Physics_Quiz1_Sem1_2019
Total questions in exam: 25 | Answered: 12
Question No. 21
A⁻ A A⁺
Two forces are: (F1 = 55 N, west) & (F2 = 33 N, north). The magnitude of their resultant (R) is:
0 N
22 N
64 N
88 N
Save & Next
HP Compaq LE1711


Total questions in exam: 25 | Answered: 12
Question No. 18
A train travelling in a straight line at an average speed of 150 km/h for 40 min covers a distance of
150 km
100 km
225 km
3.75 km
B
نحول 40 min
إلى ساعة
60 min - - - > 1 h
40 min - - - >?
=2/3
Distance = speed × time
Distance = 150 × 2/3
Distance = 100
Save & Next