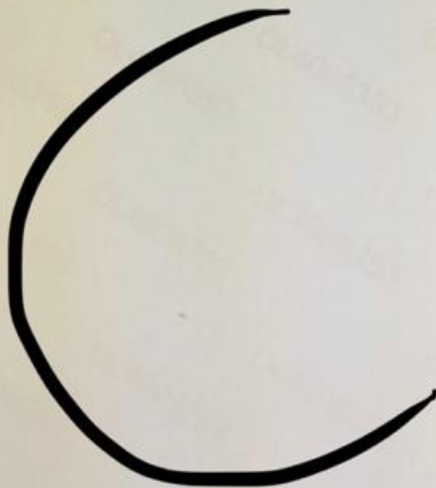


Total questions in exam: 25 | Answered: 0

## Question No. 2

If no net force acts on a moving object, it will have:

- increasing acceleration
- zero velocity
- zero acceleration
- increasing velocity





Total questions in exam: 25 | Answered: 0

Question No. 4

If the speed of an object increases five times, its kinetic energy increases

- 2.5 times
- 25 times
- 5 times
- 10 times

B

Question No. 18

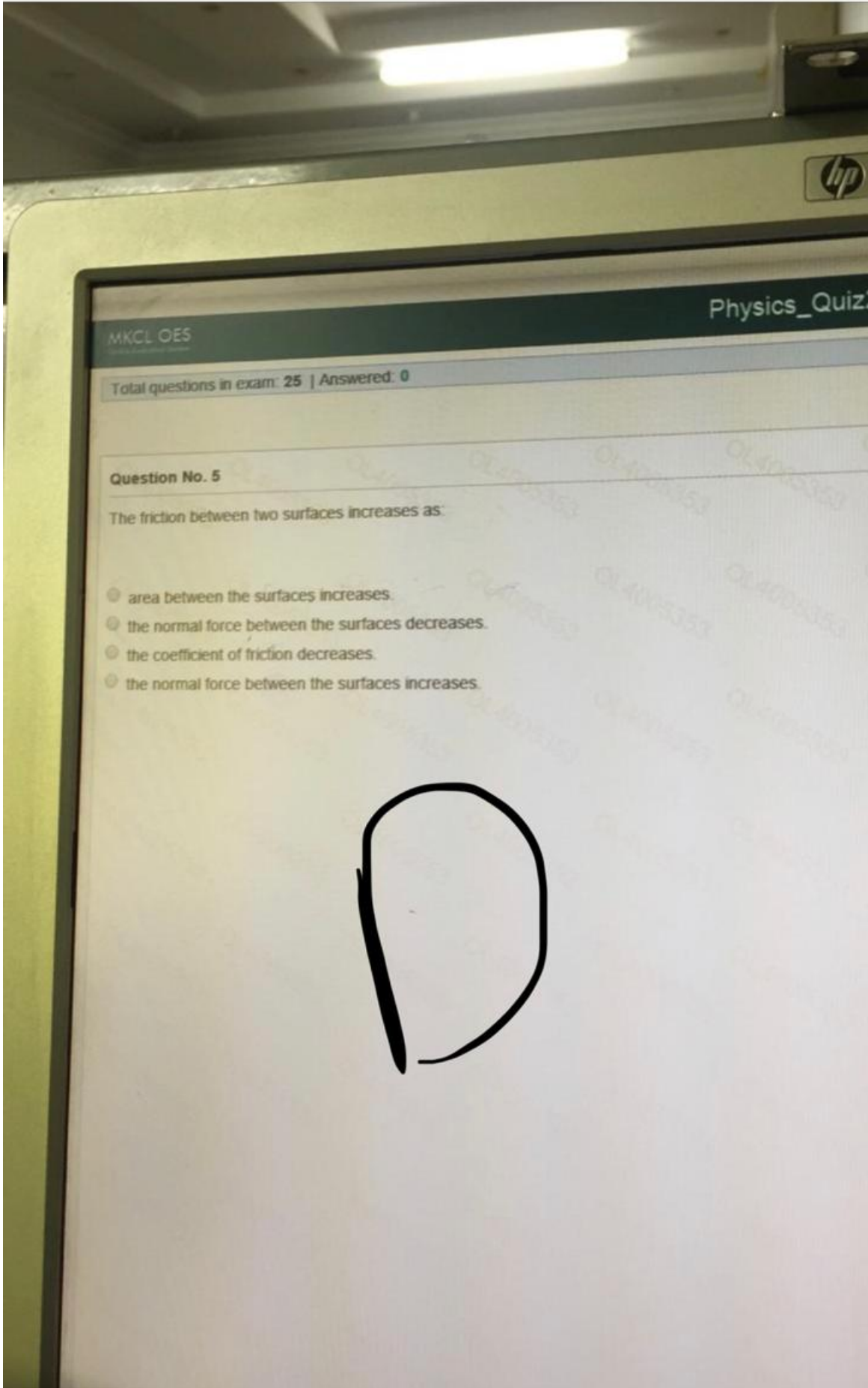
A car is moving with 85 km/h for an hour and then took a rest for 30 min. The car then continues with 50 km/h for 30 min. The average speed for journey is approximately

- 85 km/h
- 65 km/h
- 75 km/h
- 55 km/h

D

Save & Next

Cancel



MKCL OES

Physics\_Quiz

Total questions in exam: 25 | Answered: 0

Question No. 5

The friction between two surfaces increases as:

- area between the surfaces increases.
- the normal force between the surfaces decreases.
- the coefficient of friction decreases.
- the normal force between the surfaces increases.

D



Total questions in exam: 25 | Answered: 0

Question No. 1

A car is moving with 72 km/h for 40 min and then took a rest for 20 min. The car then continues with 120 km/h for two hours. This journey is approximately:

- 96 km/h
- 100 km/h
- 110 km/h
- 75 km/h





Total questions in exam: 25 | Answered: 0

Question No. 4

Two forces 10 N and 25 N act in opposite direction on an object which moved with an acceleration of  $3 \text{ m/s}^2$ . The mass of

- 3 kg
- 5 kg
- 12 kg
- 8 kg





Total questions in exam: 25 | Answered: 0

Question No. 6

Temperature is a measure of the \_\_\_\_\_ an object:

- volume of
- area of
- hotness or coldness of
- color of

C

Save & Next حفظ و التالي



Total questions in exam: 25 | Answered: 0

Question No. 7

The height a 20-kW motor can lift a 1000-kg mass to in 10 seconds is:

- 40 m
- 20 m
- 10 m
- 30 m

B

Save & Next حفظ والتالي





Total questions in exam: 25 | Answered: 0

Question No. 15

The power needed to speed up a 1000-kg car from zero km/h to 72 km/h in 10 seconds is:

- 40 kW
- 20 kW
- 50 kW
- 30 kW

B



Total questions in exam: 25 | Answered: 0

Question No. 9

You applied a horizontal force of 200 N to push a level table but the table remained at rest. The static friction force is:

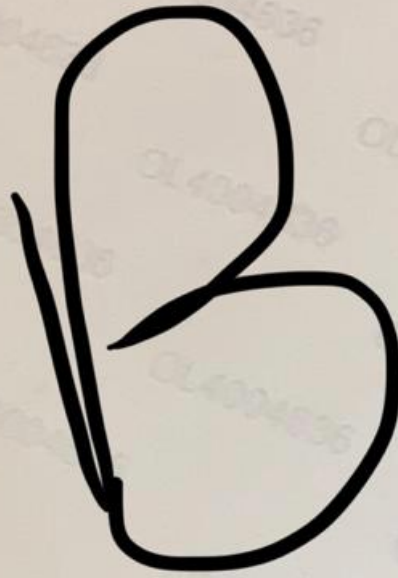
- 20 kg
- 20 N
- 200 N
- 200 kg

C

## Question No. 3

In the Kelvin temperature scale, water freezes at:

- 273 K
- 212 K
- 0 K
- 32 K



Save & Next خطواتي

Total questions in exam: 25 | Answered: 8

## Question No. 6

A pump is needed to lift 3000 L of water in a minute a distance of 30 m. What power must the pump be able to deliver? (1 L of water has a mass of 1 kg)

- 30 kW
- 15 kW
- 25 kW
- 20 kW

A large, bold, black handwritten letter 'B' is drawn over the question text and options.

Save &amp; Next

User: OL4

Number of  
Number of

5 Answer

11 Not Vis

1 2

8 9

15 16

22 23

HP Compaq LE1711



MKCL OES  
Online Examination System

Physics\_Quiz2\_Sem2\_2019

Total questions in exam: 25 | Answered: 0

Question No. 14

A wrecking ball of mass 200 kg is raised 6 m above the ground. What is the potential energy of the ball?

- 12 kJ
- 120 kJ
- 0.12 kJ
- 1.2 kJ

A

Total questions in exam: 25 | Answered: 1

Question No. 2

An object is thrown vertically upward. Its speed at the maximum height is:

- equals the initial speed by which it was thrown.
- greater than the initial speed by which it was thrown.
- zero
- greater than the average speed.





Question No. 13

When a man pushes on a wall with force 100 N, the wall pushes back on him with force of magnitude:

- 50 N
- 200 N
- 0 N
- 100 N

D

Total questions in exam: 25 | Answered: 0

Question No. 17

The human body average temperature is 98.6 °F. What is it in °C?

- 373 °C
- 40 °C
- 310 °C
- 37 °C

D





Total questions in exam: 25 | Answered: 0

Question No. 23

A car in linear motion has initial speed = 72 km/h. If it travels for 15 seconds with acceleration = 2 m/s/s, the total distance it covers is:

- 225 m
- 800 m
- 100 m
- 525 m

D



Question No. 16

A force of 1000 N is making an angle of  $60^\circ$  with the direction of motion of an object.  
If the work done is 500 kJ, the distance moved is:

- 2 km
- 1 km
- 0.5 km
- 1.5 km

B



Total questions in exam: 25 | Answered: 0

Question No. 20

A rock falls from an edge of a mountain 45 m above the ground. Find its speed as it hits the ground? (use  $g = 10 \text{ m/s}^2$ )

- 40 m/s
- 20 m/s
- 10 m/s
- 30 m/s

D

Total questions in exam: 25 | Answered: 0

## Question No. 22

A constant force  $F$  is making an angle  $25^\circ$  with the direction of motion of an object. If the distance moved is 100 m and the work done on the object is 1820 J, the force  $F$  is:

- 40 N
- 20 N
- 10 N
- 30 N

B



Question No. 8

Energy is defined as the:

- speed x time
- mass x speed
- mass x acceleration
- ability to do work

D

Total questions in exam: 25 | Answered: 0

Question No. 24

If a stone drops in a free fall from the edge of a mountain, how long does it take to fall 125 m: (use  $g = 10 \text{ m/s}^2$ ):

- 10 s
- 5 s
- 15 s
- 25 s

B

Total questions in exam: 25 | Answered: 4

Question No. 15

The law of action and reaction is Newton's:

- Inertia law
- Second law
- Third law
- First law

C

Save & Next حفظ والتالي



Total questions in exam: 25 | Answered: 0

Question No. 19

Gravitational potential energy of an object is due to its:

- temperature
- position
- velocity
- acceleration

B





Total questions in exam: 25 | Answered: 0

Question No. 18

Neglecting air resistance, if a stone is thrown straight up with initial speed = 30 m/s, it will reach its maximum height after (use  $g = 10$  m/s<sup>2</sup>)

- 10 s
- 3 s
- 1 s
- 6 s

B



Total questions in exam: 25 | Answered: 0

Question No. 8

How many kilocalories of heat must be added to 10 kg Tungsten to raise its temperature by 230 Fahrenheit?

(The specific heat of Tungsten is  $c = 0.134 \text{ J/g} \cdot ^\circ\text{C}$  and  $\Delta T_F = 1.8\Delta T_C$ )

- 4.09 kcal
- 409 kcal
- 0.409 kcal
- 40.9 kcal

D



Total questions in exam: 25 | Answered: 0

Question No. 10

A 10-kg of a substance absorbs 173 kcal of heat and its temperature rises from zero to 150 °C. What is the specific heat  $c$  of this substance?

- $c = 0.715 \text{ kcal/kg} \cdot ^\circ\text{C}$
- $c = 0.315 \text{ kcal/kg} \cdot ^\circ\text{C}$
- $c = 0.115 \text{ kcal/kg} \cdot ^\circ\text{C}$
- $c = 0.515 \text{ kcal/kg} \cdot ^\circ\text{C}$

C

As an object is freely falling, the speed by which it hits the ground is:

- greater than the initial speed.
- smaller than the initial speed.
- same as the initial speed.
- zero



Save & Next



Total questions in exam: 25 | Answered: 0

Question No. 3

In the Fahrenheit temperature scale, water freezes at:

- 32 °F
- 0 °F
- 212 °F
- 273 °F





Question No. 3

One kilocalorie is the amount of heat that increases the temperature of 1 kg of water by:

- 273 K
- 10 K
- 32 °F
- 1 °C



Save & Next حفظ و التالي



Total questions in exam: 25 | Answered: 4

Question No. 5

A man has a mass of 80 kg on the Moon. His mass on the Earth is

- M = 80 kg
- M > 80 kg
- M = 13.3 kg
- M < 80 kg

A

Save & Next

Question No. 7

In the Celsius temperature scale, water boils at:

- 212 °C
- 273 °C
- 100 °C
- 373 °C

C





Total questions in exam: 25 | Answered: 4

Question No. 18

If an object is falling with an acceleration that is less than the acceleration due to gravity, the object:

- must have big inertia.
- must have a small mass.
- is non-freely falling.
- is freely falling.

C

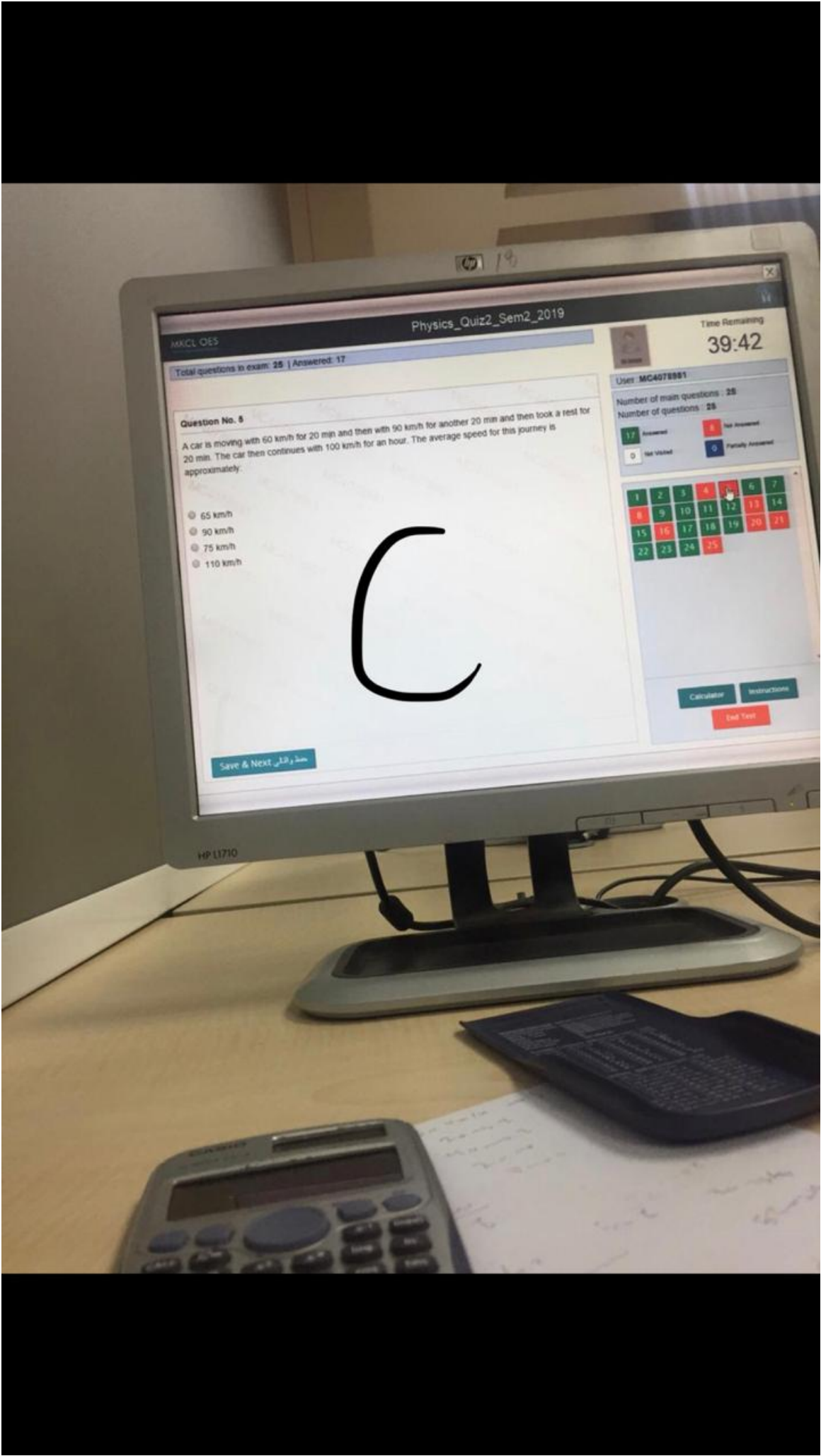


Question No. 8

Energy is defined as the:

- speed x time
- mass x speed
- mass x acceleration
- ability to do work

D



Question No. 6

A car is moving with 60 km/h for 20 min and then with 90 km/h for another 20 min and then took a rest for 20 min. The car then continues with 100 km/h for an hour. The average speed for this journey is approximately.

- 65 km/h
- 90 km/h
- 75 km/h
- 110 km/h

C

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			

Calculator Instructions  
End Test

Save & Next

HP L1710

## Question No. 8

A 750-N load is lifted a vertical distance of 20 m in 10 s. What power is developed?

- 1.5 kW
- 1500 kW
- 15 kW
- 150 kW

Save &amp; Next

User: MC407881

Number of main questions: 25

Number of questions: 25

17 Answered  
0 Not Visited

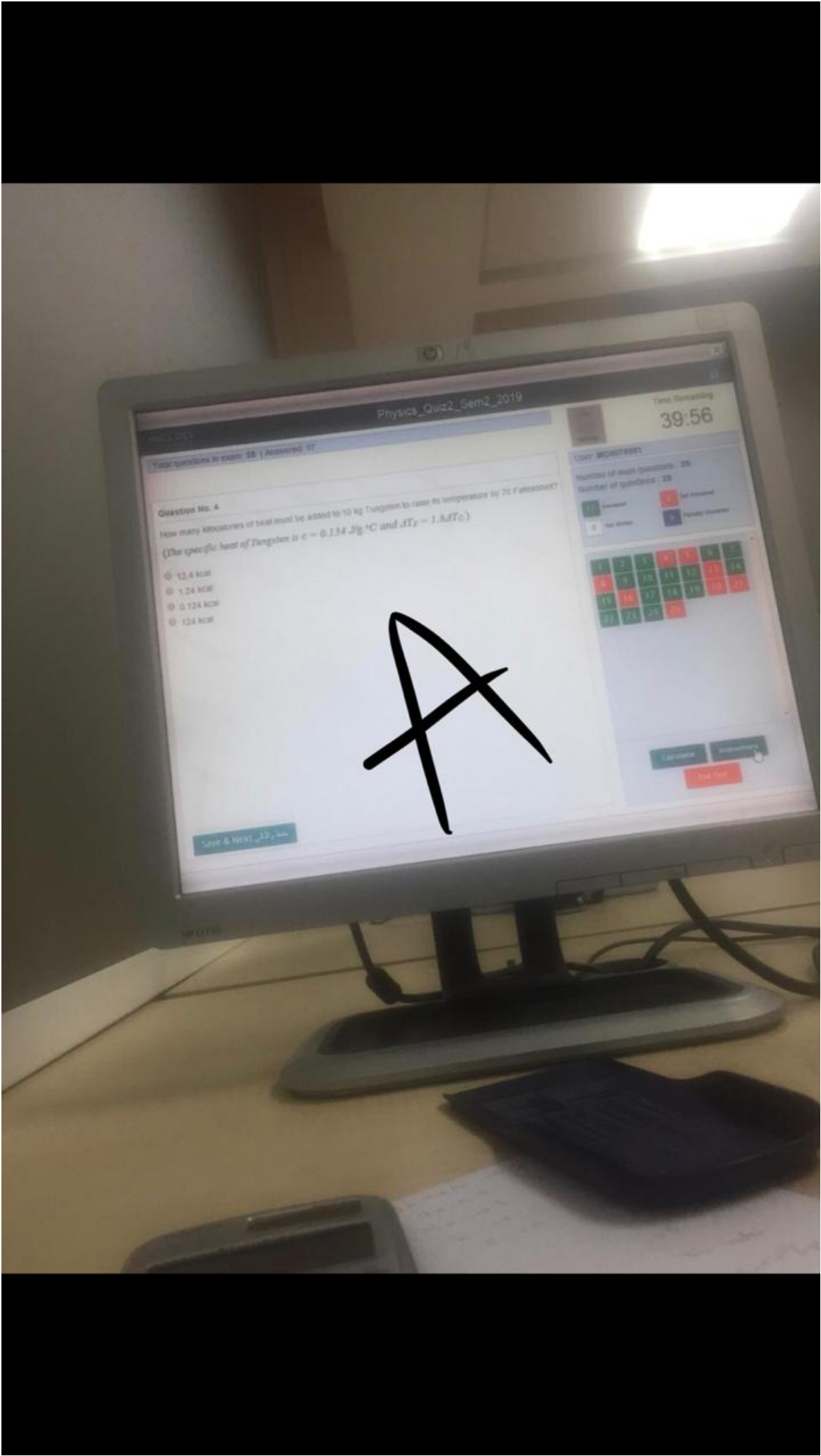
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

Calculator

Instru

End Test

HP L1710



Physics\_Quiz2\_Sem2\_2019

Time Remaining  
39:56

Total questions in exam: 25 | Answered: 17

Question No. 4

How many kilocalories of heat must be added to 10 kg of tungsten to raise its temperature by 70 F above room temperature?  
(The specific heat of tungsten is  $c = 0.134 \text{ J/g}^\circ\text{C}$  and  $1 \text{ J} = 0.239 \text{ cal}$ )

- 12.4 kcal
- 1.24 kcal
- 0.124 kcal
- 124 kcal

A

YOUR SCORES

Number of math questions: 25

Number of questions: 25

Get Answered  Get Answered

Get Answered  Get 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	26	27	28	29	30

Calculator  Help

Go Home

Save & Next



Total questions in exam: 25 | Answered: 7

Question No. 9

According to Newton's second law ( $F=ma$ ), if  $F$  is kept constant, then:

- $F = a/m$
- $a = m$
- $m$  is directly proportional to the acceleration  $a$
- $m$  is inversely proportional to the acceleration  $a$



Save & Next حفظ و التالي



Physics\_Quiz2\_

MKCL OES

Total questions in exam: 25 | Answered: 7

Question No. 10

How long would it take a 1500-W motor to raise a 100-kg mass to a height of 15 m?

- 40 s
- 30 s
- 20 s
- 10 s

D

Save & Next 13/25

Question No. 16

A constant force  $F$  is making an angle  $25^\circ$  with the direction of motion of an object. If the distance moved is 100 m and the work done on the object is 1820 J, the force  $F$  is:

- 30 N
- 10 N
- 40 N
- 20 N

D

Save & Next

User: MC4078881

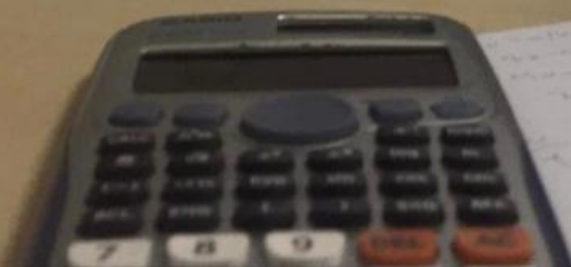
Number of main questions: 25  
Number of questions: 25

17 Answered  
8 Not Answered

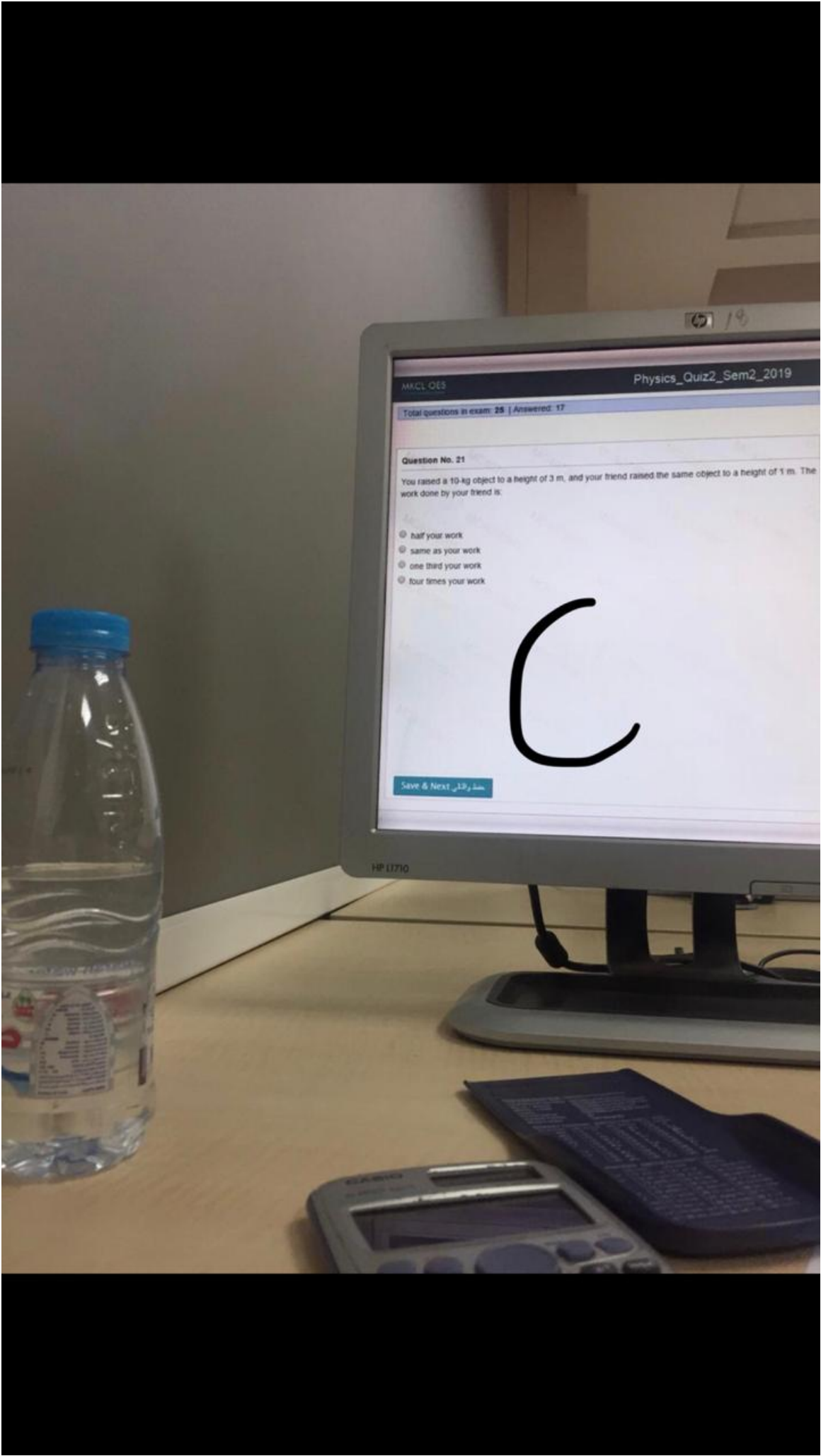
1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25		

Calculator    Withdraw  
End Test

HP E1770







Total questions in exam: 25 | Answered: 17

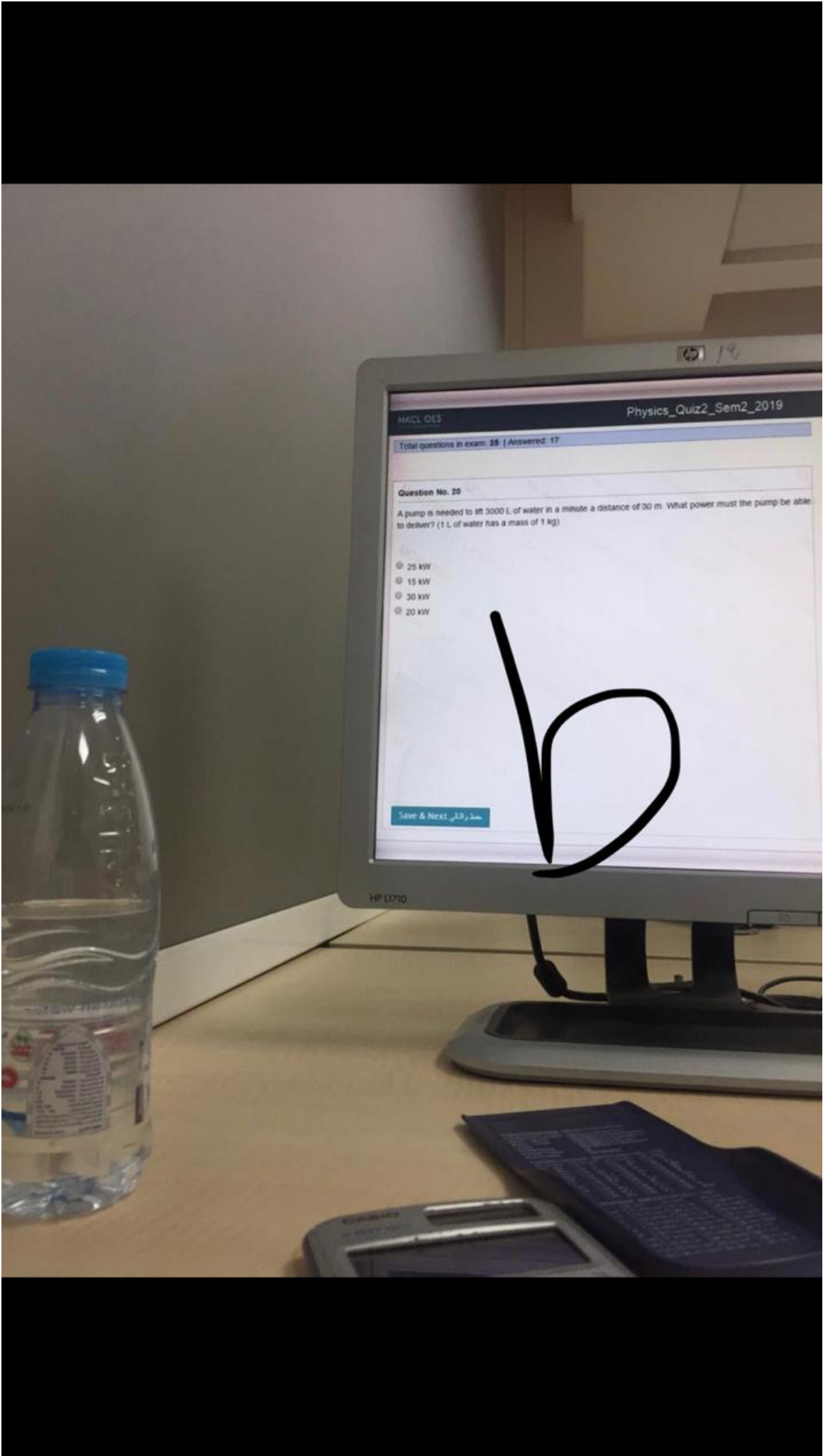
Question No. 21

You raised a 10 kg object to a height of 3 m, and your friend raised the same object to a height of 1 m. The work done by your friend is:

- half your work
- same as your work
- one third your work
- four times your work

Save & Next حفظ و التالي

HP E7710



Total questions in exam: 25 | Answered: 17

Question No. 20

A pump is needed to lift 3000 L of water in a minute a distance of 30 m. What power must the pump be able to deliver? (1 L of water has a mass of 1 kg)

- 25 kW
- 15 kW
- 30 kW
- 20 kW

Save & Next حفظ التالي



Question No. 11

A painter weighing 630 N climbs to a height of 5 m on a ladder. What is the increase in gravitational potential energy of the painter?

- 3.15 J
- 3.15 kJ
- 31.5 kJ
- 31.5 J

B

Save & Next حفظ التالي

Total questions in exam: 25 | Answered: 18

Question No. 5

The unit of the coefficient of friction is:

- m/s/s
- newton
- newton/kg
- has no units

D



Total questions in exam: 25 | Answered: 24

Question No. 11

A 400-kg concrete beam is to be raised 30 m in 30 s. How many kilowatts of power are needed to do the job?

- 4 kW
- 2 kW
- 1 kW
- 3 kW

A

Save & Next

HP Compaq LE1711

IMPORTANT: Carefully fill-in your name, student ID number, ID #

Simple calculators are allowed. You may scribble your calculations on

$v_{avg} = \frac{s}{t}$	$v_{avg} = \frac{v_f + v_i}{2}$	$a = \frac{v_f - v_i}{t}$	$v_f = v_i + a \cdot t$
$v_f^2 - v_i^2 = 2as$	$F = ma$ or $a = F/m$	Weight = $F_w = m \cdot g$	$v_f = a \cdot t$ ; ( $v_i = 0$ )
$F_{net} = F_g = m \cdot a$	$g = 10 \text{ m/s}^2$	1 m/s = 3.6 km/h	$F_f = \mu F_n$
1 giga (G) = $10^9$	1 mega (M) = $10^6$	1 micro ( $\mu$ ) = $10^{-6}$	Pythagorean B
$W = F \cdot s \cdot \cos \theta$ $W = F \cdot s$ ( $\theta = 0$ ) or $W = mgs$	$P = W/t$ or $P = mgs/t$		
$T_2 = T_1 + 273$			



Physics\_Quiz2\_

MKCL OES

Total questions in exam: 25 | Answered: 7

Question No. 10

How long would it take a 1500-W motor to raise a 100-kg mass to a height of 15 m?

- 40 s
- 30 s
- 20 s
- 10 s

10

Save & Next

Question No. 13

The power needed to speed up a 1000-kg car from zero km/h to 90 km/h in 10 seconds is:

- 45.5 kW
- 41.5 kW
- 31.25 kW
- 21.5 kW

C

Save & Next حفظ التالي

Total questions in exam: 25 | Answered: 8

Question No. 23

Which of the following do not help reducing (بطل) kinetic friction:

- using Teflon
- using heavy weights
- using smoother surfaces
- using lubrication (تزييت)

B





Total questions in exam: 25 | Answered: 19

Question No. 21

A force of 1 N is the same as:

- 1 kg m s
- 1 kg m/s/s
- 1 kg m/s
- 1 kg s/m

B



Total questions in exam: 25 | Answered: 18

Question No. 5

The unit of the coefficient of friction is:

- m/s/s
- newton
- newton/kg
- has no units



Question No. 14

If a bullet is fired from a handgun with a force  $F_1$ , the handgun recoils (ترند) with a

- F1 and F2 are not equal
- F1 and F2 are equal and in the same direction
- F1 and F2 are equal and perpendicular
- F1 and F2 are equal and opposite



Total questions in exam: 25 | Answered: 7

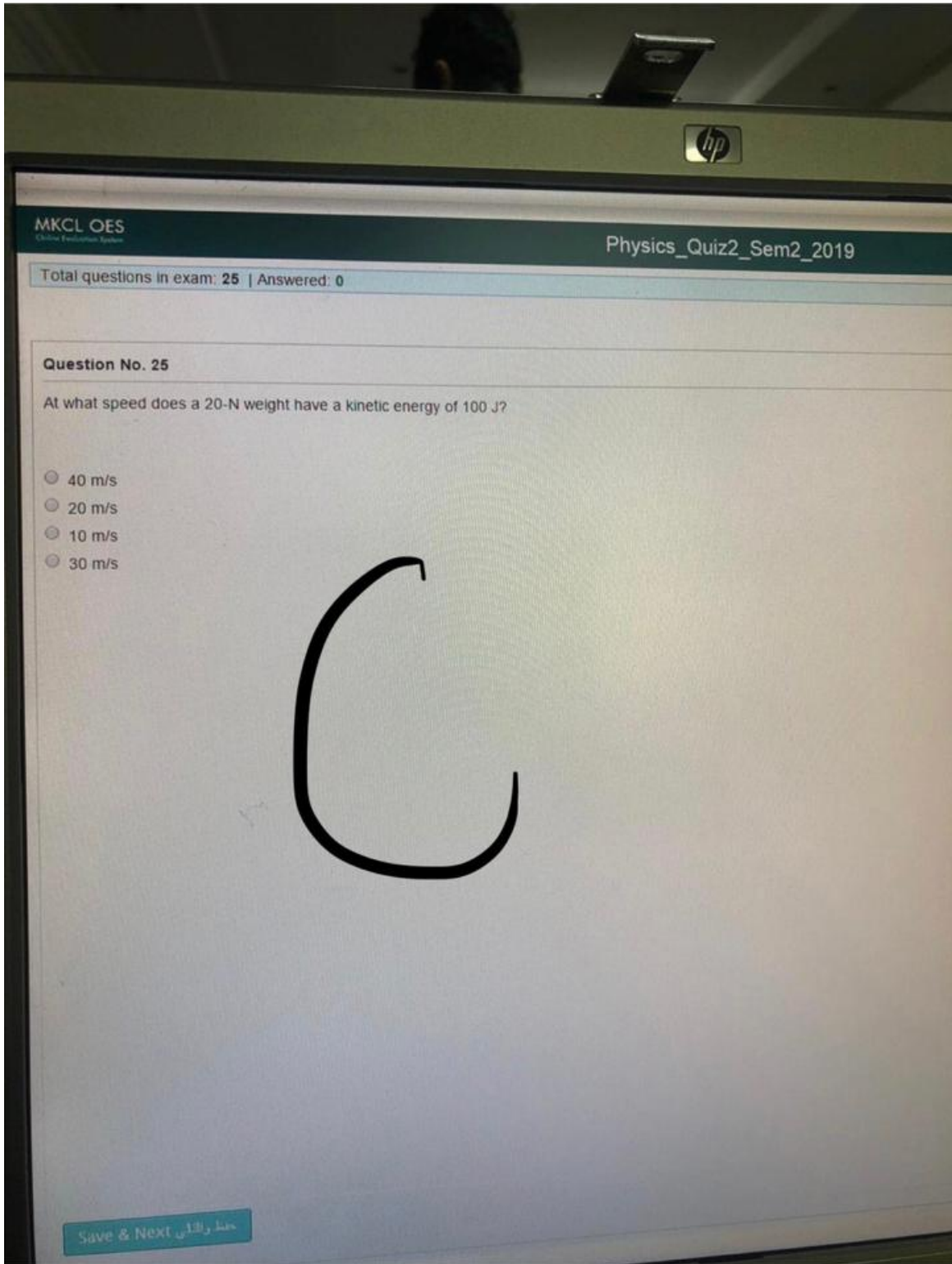
Question No. 22

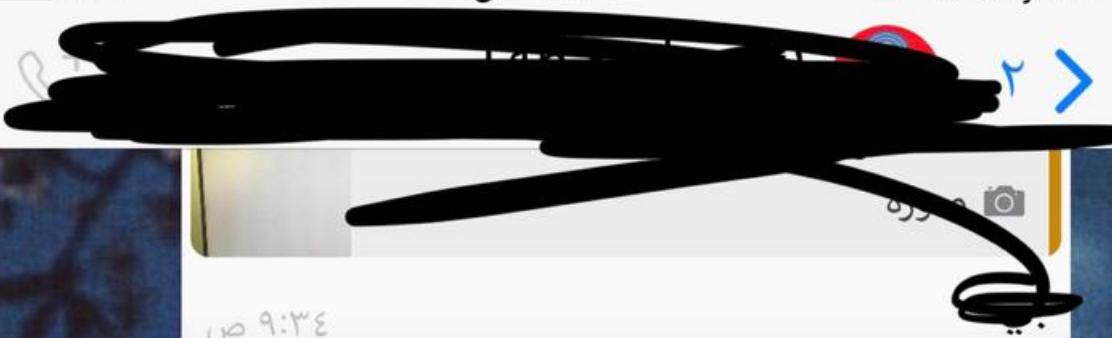
If there is a net force acting on a moving object, the object must be:

- small
- moving with constant velocity
- large
- accelerating

D

Save & Next حفظ والتالي





9:34 ص

رسالة محوِّلة

Which of these can not be a unit of heat :

- BTU
- WATT
- CALORI
- JOULE

B

9:36 ص

~Ghazi Mug

~Ghazi Mug

Which of these can not be a unit of heat :

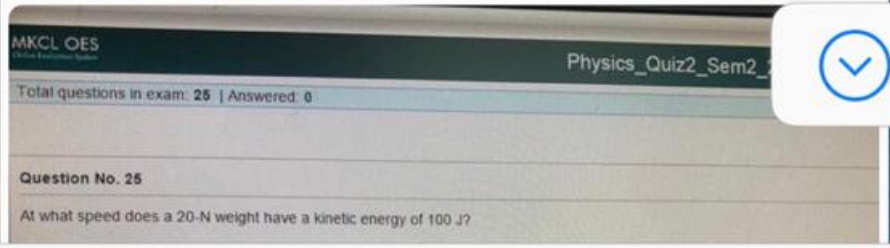
- BTU
- WATT

9:36 ص

بي

~Ghazi Mug

رسالة محوِّلة



وحدهم مشرفو المجموعة يستطيعون إرسال الرسائل



Question No. 15

How long would it take a 5-kW motor to raise a 500-kg mass to a platform 4 m above the floor?

- 4 s
- 3 s
- 2 s
- 1 s

A



Total questions in exam: 25 | Answered: 13

Question No. 16

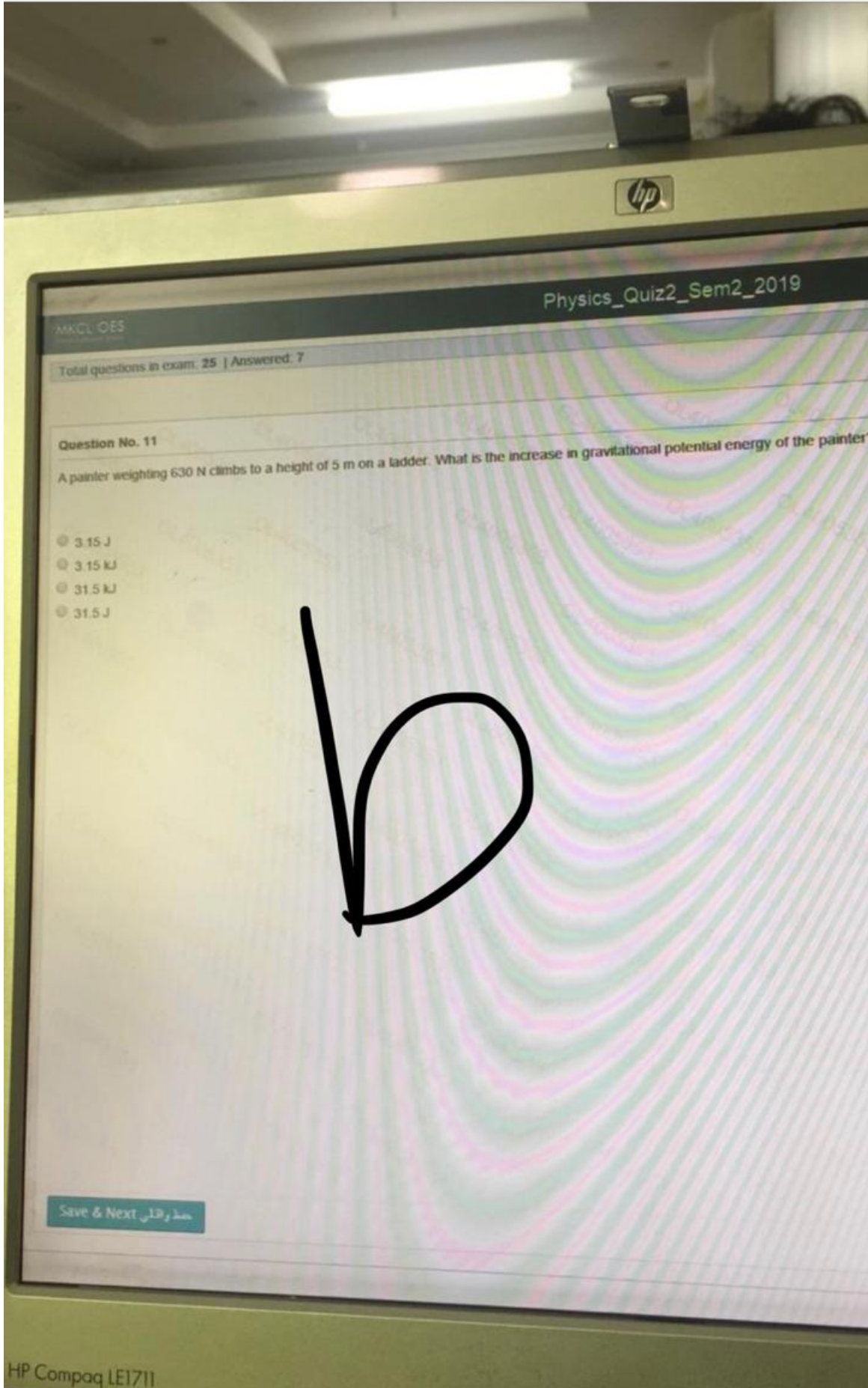
If you did a work of 210 J to place a 7-kg box on the top of a shelf, the height of this shelf is:

- 4 m
- 3 m
- 2 m
- 1 m

B

Save & Next حفظ و التالي





AKCL OES

Physics\_Quiz2\_Sem2\_2019

Total questions in exam: 25 | Answered: 7

Question No. 11

A painter weighting 630 N climbs to a height of 5 m on a ladder. What is the increase in gravitational potential energy of the painter?

- 3.15 J
- 3.15 kJ
- 31.5 kJ
- 31.5 J

b

Save & Next

Total questions in exam: 25 | Answered: 19

Question No. 21

A force of 1 N is the same as:

- 1 kg m s
- 1 kg m/s/s
- 1 kg m/s
- 1 kg s/m

B

Save & Next حفظ والتالي

Question No. 6

Which of the following temperatures is NOT possible?

- 4500 °C
- 278 °C
- 274 °F
- 200 °C

B