1/13/24, 12:21 AM	Section 3 EST dec 2021: Attempt review		
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Started on	Friday, 12 January 2024, 5:21 PM		
State	Finished		
Completed on	Friday, 12 January 2024, 5:21 PM		
Time taken	11 secs		
Grade	<b>0.00</b> out of 20.00 ( <b>0</b> %)		
Question 1	N. N.		
Not answered			
Marked out of 1.00			





Not answered Marked out of 1.00

> g=12- $\frac{m}{20}$  Ibrahim fills up the gas tank of his car before going for a trip. The equation above models the amount of gas g, in gallons, in Ibrahim's car when he has driven m kilometers

#### 4 \_How many gallons of gas can Ibrahim's tank hold?

EIM

#### Select one: Ο Α. 20

- OB. 8 C. 12
- O. 11.5

Your answer is incorrect.

The correct answer is: 12

#### Question 5

Not answered Marked out of 1.00

What does 20 represent in the equation above

Select one:

- O A. Ibrahim's tank can hold 20 gallons of gas.
- whiteshawy hatte wy hatte О В. Ibrahim's car can travel 20 kilometers on 12 gallons of gas
- O C. Ibrahim uses 20 gallons of gas per kilomet
- O D. Ibrahim's car can travel 20 kilometers to the gallon.

Your answer is incorrect.

The correct answer is: Ibrahim's car can travel 20 kilometers to the gallon. 1/13/24, 12:21 AM

#### Section 3 EST dec 2021: Attempt review

#### Question 6

Not answered Marked out of 1.00

> In June 2021, Peter wants to manage his time carefully to know the number of interviews, T, he can take. For each interview that he takes, he expects to spend 3.5 hours working on the candidate's application. In addition to this, he expects to spend an additional 5 hours to schedule interviews for all candidate. If Peter has 80 hours available in June, how many interviews can he take?

Select one:

Mr.Mohaned Elminshand Elminshand Human Math A. ОВ. C. 9 O. 23

Your answer is incorrect.

The correct answers are: 21, 24

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Question 7

Not answered Marked out of 1.00

Which of the inequalities below represents the solution of the shaded region in the figure below?

Elmins



Not answered

Marked out of 1.00

## Which of the following is the simplest form of the expression $\frac{24ab^4c^2}{27a^3b^4c}$ Select one:a. $\frac{8a^2c}{9}$ b. $\frac{8c}{9a^2}$ Mr.Mohalt

Elmins

A factor of the polynomial  $7x^2 + 14x - 21$  is: elect one: A x - 3B 7x + + 3 7x - 7 x + 7

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Not answered Marked out of 1.00

For what values of a and b will the equation  $x^2 + ax = b$  have the solutions 1 and -1? Select one: .e SOi

Elmine

A. a = 0; b = 1

ОВ. a = 0; b = -1

○ C. a = 1; b = 0

<sup>D.</sup> a = 1; b = 1

Your answer is incorrect.

The correct answer is: a = 0; b = 1

#### Question 11

Not answered

Marked out of 1.00

(x) = 1 in the same system will have: The graphs of f (x) = ||x| - 2| and g(x) = 1 in the same system will have:

Select one:

A. 2 points of intersection

ОВ. 4 points of intersection

O C. 0 points of intersection

D. 1 point of intersection

Your answer is incorrect. The correct answer is: 4 points of intersection Question 12 Not answered Marked out of 1.00

## 24, 12:21 AM Section 3 EST dec 2021: Attempt review estion 12 t answered rked out of 1.00 12. What is the coefficient of $x^3$ when $\frac{2}{5}x^3 + 2x^2 - 3$ is multiplied by $5x + \frac{2}{r}$ ? Α. В.

. b. C.  $\frac{25}{54}{5}{54}{5}{254}$ Select one: A ОВ C O D Your answer is incorrect. The correct answer is: D

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 $S = \frac{-5}{3} = \frac{15}{5}$   $S = \frac{-5}{5} = \frac{15}{5}$   $S = \frac{-5}{3} = \frac{15}{3}$   $S = \frac{-5}{3} = \frac{15}{3} = \frac{15}{3}$   $S = \frac{-5}{3} = \frac{15}{3} =$ 13. Which of the following

Select one:

Ο Α

О В

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FIMIL

#### Question 14

Not answered Marked out of 1.00

> The graph of an exponential function K in the xy-plane, where y = K (X) has a y-intercept of h, where h is a negative constant number. Which Mr.Mohal r.Nonai of the following could be function K?

Elmins

Select one:

• A.  $K(X) = h(4)^{\lambda}$ 

ОВ.  $K(X) = -h(x)^3$ 

○ C.  $K(X) = -\sqrt{13hx}$ 

O D.  $K(x) = 2 \bigvee X$ Your answer is incorrect. The correct answer is:  $K(X) = h(4)^X$ Question 15 Not answered Marked out of 1.00 If C is a circle of center (2,0) and radius = 2, then which of the following points is inside the ohan circle? Select one: • A. (1,3) "=18674&cmir" ОВ. (2, -2)C. (3,-1) D. (4,0) Your answer is incorrect. The correct answer is: (3,-1)

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#### Question 16

Not answered Marked out of 1.00

> In the figure below, d and d' are parallel lines,  $\ = 103$ ,  $\ = 30$ 07 and \angle4 = 97. What is the measure of \angle1? (The figure is not drawn to scale)

> > 3

2

Answer:

D"

The correct answer is: 67

Question 17 Not answered

Marked out of 1.00

# nswer: he correct answer is: 67 stion 17 answered ked out of 1.00 $3x - 1 = \sqrt{3k^2 - x}$ 17. If k > 0 and x = 2 in the equation above, what is, the value, of l = 2above, what is the value of k? (Grid in)

Answer:			×	<i>n</i> , <i>n</i> ,
The correct answ	ver is: 3	S. C.	SIL MAR	AL MART
		Shaw	Sharri	shaw
		HUM HUM	IL HOU	6
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The correct answer is: 3



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alle alle alle			
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Grade	<b>0.00</b> out of 38.00 ( <b>0</b> %)		
Question 1	Nr. Nr.		
Not answered			
Marked out of 1.00			

Section 4 EST dec 2021: Attempt review

If x is a positive number less than 1, then which of the following is true ?

$1.x^2 < x$
II.x <sup>3</sup> >x
III.x+1>1
Select one:
<ul> <li>a. III only</li> </ul>
O b. I and III
O c.   and
O d. II and III
and and and
Your answer is incorrect.
The correct answer is: I and III
Question 2
Not answered
Marked out of 1.00

In a school competition, students have to prepare sketches of length x minutes. The minimum length is 2 minutes and the maximum length is 3 minutes.

Which inequality represents the given situation?

Select one:

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 $\bigcirc$  a. |x-3| < 2• b.  $|x-2.5| \le 0.5$ • c.  $|x - 0.5| \le 2.5$ 

 $\bigcirc$  d. |x-2|<3

Your answer is incorrect.

The correct answer is:  $\mid x-2.5 \mid \leq$  0.5

Not answered

Marked out of 1.00

...cular to Which of the equations below could not be a line perpendicular to line (d) given below?

(d): x + 2y + 2 = 0

Select one:

r.Mohar ○ a. 6x - 3y = 0

) b. 2x + y + 1 = 0O c. 4x - 2y - 2 = 0

O d. 2x - y + 3 = 0

#### Your answer is incorrect.

The correct answer is: 2x + y + 1 = 0

and 15 EGP for adults. On a certain day, 1,5. . tickets for adults only on that day? Question 4 Not answered Marked out of 1.00

Street food tickets at the park cost 10 EGP for children and 15 EGP for adults. On a certain day, 1,500 tickets were bought for a total of 19,750 EGP.

What is the amount of money made from the tickets for adults only on that day?

Select one

- A. 5,490 EGP
- B. 7,500 EGP
- C. 12,000 EGP
- O. 14,250 EGP

Your answer is incorrect.

The correct answer is: 14,250 EGF

Not answered Marked out of 1.00

Nohamed What is the solution to the equation below ?

 $2(\frac{x}{3}-\frac{1}{4})-2x = \frac{2}{5}$ 

Select one:

🔵 а. x=\(\frac{-9}{28} \

- b. x=\(\frac{-27}{40}\)
- c. x=\(\frac{3}{40}\)
- d. x=\(\frac{-27}{10}\)

Your answer is incorrect.

The correct answer is:  $x = ( \frac{-27}{10} )$ 

Question 6
Not answered
Marked out of 1.00
If the straight line (d) of equation $kx + 3y - 1 = 0$ passes through the point (-0.5, 1), what is the slope of (d)?
Select one:
○ a. \(\frac{-4}{3} \)
b. \(\frac{-3}{4} \)
C. 4
○ d. \(\frac{4}{3} \)
and the second sec
Your answer is incorrect.
The correct answer is: \( \frac{-4}{3} \)
Chi. Chi. Chi.

- a. \(\frac{-4}{3} \)
- b. \(\frac{-3}{4} \)
- Oc. 4
- d. \( \frac{4}{3} \)



Not answered Marked out of 1.00

> On a math test of 30 questions, Mona got 75% of the 12 geometry questions correct, 60% of the 10 algebra questions correct and 25% of the 8 trigonometry questions wrong. what percentage of all the questions did Mona get correct ?

> > Mr.Mo

Select one:

- 🔵 а. 70%
- 🔘 b. 160%
- Ос. 56.6%
- od. 210%

#### Your answer is incorrect

The correct answer is: 70%

Question 10 Not answered

Marked out of 1 00

.as first increased by 15% and then increas The price of the COVID-19 vaccine in the black market was first increased by 15% and then increased by 10% after two weeks What is the percent increase in the price of the vaccine ?

Select one:

- a. 25%
- b. 126.5%
- oc. 26.5%
- d. 1.265%

Your answer is incorrect

The correct answer is: 26.5%



Alice surveyed all the students in the secondary department at her school to see their most important concem through the pandemie situation of corona virun. The results are shown in the figure below. If the ratio of student who answered Vaccinations to those who answered Economia OSIS was 3.2. what percentage of the students answered "Vaccinations" ?

Select one:

- A. 10%
- B. 12%
- C. 8%
- O. 18%

Your answer is incorrect.

The correct answer is: 12%

Question 12 Not answered Marked out of 1.00

### Questions 12, 13, 14 and 15 refer to the same information.

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#### Select one:

- a. Average kilowatts used by each appliance in a day
- b. Average hours used in a day by each appliance
- c. Hours appliance used per day
- d. Total electricity per day

#### Your answer is incorrect

The correct answer is: Average hours used in a day by each appliance

Not answered

Marked out of 1.00

.ends? Which appliance has more usage on weekdays than on weekends?

Select one:

a. Lights

b. Computer

🔾 c. Fridge

🔵 d. TV

Your answer is incorrect.

The correct answer is: Computer

	2
Question 14	
Not answered	
Marked out of 1.00	
Shi Shi Shi	
How many hours a day, on average, is the washer used on weekdays?	
Select one:	
a. 7	
O b. 6	
○ c. 12	
🗆 d. 5	
Your answer is incorrect.	
The correct answer is: 5	
$N_{O_1} = N_{O_1} = N_{O_1}$	
Question 15	
Not answered Marked out of 1.00	
Which appliances are used on weekends for an average of at least three hours per day more than on weekdays?	
Select one:	
○ a. TV, computer and washer	~
b. Others	
○ c. lights and washer	
O d. TV and heater	
she she she	
Your answer is incorrect.	
The correct answer is: TV and heater	
the the the	
LE LE LE	
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#### Select one:

- a. TV, computer and washer
- b. Others
- c. lights and washer
- d. TV and heater

#### Your answer is incorrect.

Not answered Marked out of 1.00

> In a bag theta are 14 identical tokens numbered from 0 to 13 A token Is drawn at random. What is the probability to obtain an odd multiple of 3?

Select one:

a. \( \frac{1}{7} \)

- 🔘 b. \( \frac{2}{5} \)
- Ос. \( \frac{2}{13} \)
- d. \(\frac{3}{14} \)

#### Your answer is incorrect.

The correct answer is:  $( frac{1}{7} )$ 

at 8% annual interest compounded monthly Question 17 Not answered Marked out of 1.00

How much money would you need to deposit today at 8% annual interest compounded monthly to have \$10,000 in the account after 5 years?

Select one:

- a. \$6,712.10
- b. \$6,500.5
- c. \$5,989.3
- d. \$6,680.13

Your answer is incorrect The correct answer is: \$6,712.10

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Question 18

Not answered Marked out of 1.00

> A box contains 7 identical balls, three red, two green and two blue. Three balls are drawn randomly and successively one after the other without replacing the ball in the box. What is the probability to get exactly one ball of each color? Mr.Mo

EIM

Select one:

a. \(\frac{72}{343} \)

- b. \( \frac{12}{35} \)
- c. \( \frac{2}{35} \)
- d. \( \frac{12}{343} \)

Your answer is incorrect.

The correct answer is:  $( \frac{2}{35} )$ 

Question 19 Not answered

Marked out of 1.00

e.ollinear. How many straight lin Consider k points on the plane where no three points are collinear. How many straight lines can be drawn using these points ?

Select one:

- a. \( \frac{k}{2!} \)
- b. \( \frac{k(k-2)}{2} \)
- c. k(k-1)
- $\bigcirc$  d. \( \frac{k(k-1)}{2}

Your answer is incorrect

The correct answer is: \( \frac{k(k-1)}{2



Section 4 EST dec 2021: Attempt review



**20.** Mrs. Mary made the scatterplot above to show the relationship between the number of absences and a student's final exam score without drawing the line of best fit. Which of the following scores could a student approximately get on the final exam with 6 absences?



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Question 21

Not answered



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Question 22 Not answered	in ainshe ainshe
Marked out of 1.00	
If 3 <sup>x</sup> .\( \sqrt[4]{3} \)=9 <sup>2x</sup> , then x=	so reor
Select one:	NO1
○ a. \( \frac{1}{12} \)	~NO'
○ b. 4	L.
○ c. \(\frac{4}{3} \)	
○ d. \( \frac{-7}{4} \)	
Your answer is incorrect.	
The correct answer is: $( \frac{1}{12} )$	
	26 26 26
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Question 23 Not answered Marked out of 1.00

e . 23. The math teacher asked four of her students to draw the function f(x) = $\frac{2}{x-1}$  in the xy-plane and to write only one piece of information from their obtained curves. The table below shows the results.

Maya	The curve admits a center of
	symmetry of coordinates (1,0).
Tarek	The curve admits two vertices.
Mirna	The curve admits an asymptote of
	equation $y = 1$ .
Albert	The range of the function is $\mathbb{R}$ .

Which student could be right?

Select one:

🔿 A. Maya

Tarek ОВ.

C. Mirna

O. Albert

Your answer is incorrect.

The correct answer is: Maya

Not answered Marked out of 1.00

medElminst d Elmins  $=\frac{\sqrt{16x^2y^2}}{\sqrt[3]{-125x^3y^3}+2xy}}$ 24. If A and x >0, y < 0 then A =







26. The curve above represents the curve of function f defined over  $\mathbb{R}$ . What is the solution of  $0 \le f(x) \le$ 

2?

A. 
$$\left[\frac{-4}{3}, -0.5\right] \cup [2, +\infty[$$
  
B.  $[-2, -1] \cup [0, +\infty[$   
C.  $[-2.5, -0.5]$   
D.  $\left[\frac{-4}{3}, -0.5\right] \cup [-2, +\infty[$ 



Question 27	
Not answered	
Marked out of 1.00	
NO NO NO	
Which of the following represents 3 <sup>4</sup> =81 in logarithmic form ?	
Select one:	
○ a. log <sub>4</sub> 81=3	
○ b. log <sub>81</sub> 3=4	
○ c. log <sub>3</sub> 81=4	
○ d. log <sub>3</sub> 4=81	
Your answer is incorrect.	
The correct answer is: log <sub>3</sub> 81=4	
and a star and	
Shi Shi Shi	
Nico Nico Nico	
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perpendicular to the base of the right cone with a diameter of 6? (The figure is not drawn to scale) ed to hamed to hamed

Select one:

a. 18\(\sqrt{2}\)  $\bigcirc$  b. 6\(\sqrt{2}\) c. 36\(\sqrt{2}\) Od. 18

Your answer is incorrect

The correct answer is:  $18 \left( \frac{2}{2} \right)$ 



coordinates of point B are e c se, in se, in se, in second  $(-\sqrt{3}, -\sqrt{3})$ , what is the measure, in radians, of angle AOB?

Select one:

- a. -\(\frac{\pi}{4}\)
- b. \( \frac{ 3\pi }{4} \)
- c. \( \frac{4 \pi }{5} \)
- d. \(\frac{-3 \pi }{4} \)

Your answer is incorrect.

The correct answer is:  $( \frac{-3 \psi}{4} )$ 

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Question 30 Not answered Marked out of 1.00	Inined Elmined Elmines	
Mr.Marco Mr.M	r McMohe	D1
	z	D2
<b>30.</b> In the find two para	igure above, D1 and D2 a allel lines.	re
Which or true?	of the following is always	
<ul> <li>a. z=x-y</li> <li>b. z=x</li> <li>c. x+z+y=180</li> <li>d. x=y-z</li> </ul>	Shamer Mohamer	
Your answer is incorrect. The correct answer is: x=y-z		
<b>Question 31</b> Not answered Marked out of 1.00	Nath Math	13th
If $ 2x - 3  \le 4$ , what is the greatest po Answer:	ssible value of  3x – 2 ?	n'h'
The correct answer is: 8.5	Law the Can the Can the	

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Question 32

Not answered Marked out of 1.00

> A father decides to give his son 10 EGP for every math question solved correctly as to encourage him to study mathematics more, but takes back 5 EGP if the solution is wrong. After 30 questions, each has given and received the same amount of money. How many correct questions did the son solve?

Answer

The correct answer is: 10

Question 33	
Not answered	
Marked out of 1.00	
What is 17% of 36% of 2500?	
Answer: X	
The correct answer is: 153	
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Question 35 Not answered Marked out of 1.00

> On Mother's Day, a big store put a freezer and a refrigerator on sale. The owner of the store suggests that: The probability that a person buys a refrigerator is\( \frac{5}{7} \). The probability that a person buys a freezer if he buys a refrigerator is\( \frac{2}{5} \) The probability that a person buys a freezer if he doesn't buy the refrigerator is 5%. What is the probability that the person buys the freezer?

Elmins

Answer:	×
The correct answer is: 3/10	All All All
Question 36	The the the
Not answered	2, 2, 2,
Marked out of 1.00	in the the
nill <sup>3</sup>	cill's sill's
In a class of 25 students, the average of the grades of the boys, girls and in this class?	d the class is 12, 14 and 13.2 respectively. How many girls are
Answer:	×
The correct answer is: 15	Elmins
Question 37 Not answered Marked out of 1.00	
How many solutions, in R, does the equation $e^{3x} - 3x - 3 = 0$ admit?	
Answer:	×
The correct answer is: 2	
	ang Math ang Math ang Math
HAMAST	HNINShe HNINShe
and and	no and
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Marked out of 1.00

In the triangle below, \( \overline{AD} \)  $\perp$  \( \overline{BC} \) and \( \overline{CE} \)  $\perp$ 

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Not answered



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