

---

**Started on** Saturday, 6 January 2024, 3:29 PM

**State** Finished

---

**Completed on** Saturday, 6 January 2024, 3:29 PM

**Time taken** 11 secs

**Marks** 0.00/25.00

**Grade** 0.00 out of 10.00 (0%)

---

**Question 1**

Not answered

Marked out of 1.00

If  $\frac{2}{x+1} - \frac{3}{x+2} = 0$ . Find the value of x

Select one:

- a. 0
- b. 1
- c. 2
- d. 3

Your answer is incorrect.

The correct answer is: 0

**Question 2**

Not answered

Marked out of 1.00

Ratio of boy to girl is 3:5 and the total number of students is 976. What is the difference between number of boys and number of girls?

Select one:

- a. 120
- b. 145
- c. 244
- d. 260

Your answer is incorrect.

The correct answer is: 120

**Question 3**

Not answered

Marked out of 1.00

If the average of 3 Numbers is 18 by adding number  $x$  will make average 20. What is the value of  $x$

Select one:

- a. 20
- b. 21
- c. 22
- d. 26

Your answer is incorrect.

The correct answer is: 20

**Question 4**

Not answered

Marked out of 1.00

If 6 consecutive odd integer numbers with median of 8, What is the mean?

Select one:

- a. 6
- b. 7
- c. 7.5
- d. 8

Your answer is incorrect.

The correct answer is: 6

**Question 5**

Not answered

Marked out of 1.00

If  $y\sqrt{27} - y\sqrt{147} + 3y\sqrt{75} = 66$ . Find the value of  $y$

- a.  $2\sqrt{3}$
- b.  $2\sqrt{6}$
- c. 2
- d. 3

Select one:

- A
- B
- C
- D

Your answer is incorrect.

The correct answer is: A

**Question 6**

Not answered

Marked out of 1.00

Which point satisfying both inequalities below

$$2x - y + 4 \leq 0$$

$$y > -3x + 1$$

Select one:

- a. (-1,6)
- b. (-1,4)
- c. (1,3)
- d. (-0.6,2.8)

Your answer is incorrect.

The correct answer is: (-1,6)

**Question 7**

Not answered

Marked out of 1.00

Which of the following is equivalent to  $\frac{x^2 - 7x + 4}{x - 3}$ ?

- a.  $x + 4 - \frac{8}{x - 3}$
- b.  $x - 4 + \frac{8}{x - 3}$
- c.  $x - 4 - \frac{8}{x - 3}$
- d.  $-x - 4 - \frac{8}{x - 3}$

Select one:

- A
- B
- C
- D

Your answer is incorrect.

The correct answer is: A

**Question 8**

Not answered

Marked out of 1.00

If  $p = 2i - 1$  $q = 2 - 3i$ Find the sum of real numbers and imaginary numbers of  $\left(\frac{q}{p}\right)$ 

Select one:

- a. -1.8
- b. 0
- c. 1.2
- d. -1.2

Your answer is incorrect.

The correct answer is: -1.8

**Question 9**

Not answered

Marked out of 1.00

What is the remainder when  $x^3+3x^2-2x+5$  is divided by  $x+2$ ?

Select one:

- a. 11
- b. 12
- c. 13
- d. 14

Your answer is incorrect.

The correct answer is: 11

**Question 10**

Not answered

Marked out of 1.00

John has 5 shirts and 4 pair of pants. 2 hats. 3 pair of shoes. How many possible outfits John could wear?

Select one:

- a. 120
- b. 240
- c. 30
- d. 14

Your answer is incorrect.

The correct answer is: 120

**Question 11**

Not answered

Marked out of 1.00

|       | Party | Dinner |
|-------|-------|--------|
| Men   | 32    | 25     |
| women | 27    | 44     |

What fraction of the group are men love party?

Select one:

- a. 0.2
- b. 0.25
- c. 0.3
- d. 0.4

Your answer is incorrect.

The correct answer is: 0.2

**Question 12**

Not answered

Marked out of 1.00

A bag has 5 blue balls and 2 green balls and 4 red. What is the probability of picking a ball that is not red?

Select one:

- a. 4/11
- b. 2/9
- c. 7/11
- d. 1/11

Your answer is incorrect.

The correct answer is: 4/11

**Question 13**

Not answered

Marked out of 1.00

Which of the following is equivalent to

$$-2(8x^2 + 5) - 3(6x - 5x^2 - 4)?$$

- a.  $-x^2 - 18x - 2$
- b.  $-x^2 - 18x + 2$
- c.  $-x^2 + 18x + 2$
- d.  $x^2 - 18x + 2$

Select one:

- A
- B
- C
- D

Your answer is incorrect.

The correct answer is: A

**Question 14**

Not answered

Marked out of 1.00

If  $f(x)=2x^2$  and  $g(x)=6x-n$  are tangent. Find the value of  $n$ .

Select one:

- a. 4.5
- b. 2.1
- c. 3.8
- d. -3.8

Your answer is incorrect.

The correct answer is: 4.5

**Question 15**

Not answered

Marked out of 1.00

| Year | Houses |
|------|--------|
| 2020 | 76     |
| 2021 | 95     |

If the percent increase of number of houses from 2020 to 2021 half the percent increase from 2021 to 2022. What will be the number of houses in year 2022?

Select one:

- a. 135
- b. 130
- c. 142
- d. 147

Your answer is incorrect.

The correct answer is: 135

**Question 16**

Not answered

Marked out of 1.00

After discount 30% the price of shirt is 6.3 LE. What was the original price?

Select one:

- a. 9.3
- b. 9
- c. 8.19
- d. 8

Your answer is incorrect.

The correct answer is: 9.3



**Question 17**

Not answered

Marked out of 1.00

What is the sum of the mean , median , and mode of the number of pens ?

|                 |    |    |    |    |
|-----------------|----|----|----|----|
| No. of pens     | 4  | 3  | 2  | 1  |
| No. of students | 10 | 10 | 30 | 10 |

- a. 5.8
- b. 6.3
- c. 10.4
- d. 3.6

Select one:

- A
- B
- C
- D

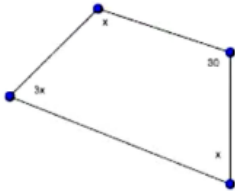
Your answer is incorrect.

The correct answer is: A

**Question 18**

Not answered

Marked out of 1.00



The figure above not drawn to scale. Find the value of half  $x$ .

Select one:

- a. 33
- b. 20.625
- c. 82.5
- d. 41.25

Your answer is incorrect.

The correct answer is: 33

**Question 19**

Not answered

Marked out of 1.00

If the distance between two cities A and B is 2 km, he travels from A to B in 25 minutes, and get some rest for two hours and then returns back to city A in 35 minutes. What was the average speed for his journey?

Select one:

- a. 4 km/h
- b. 10/9 m/sec
- c. 2/3 km/h
- d. 10/9 km/sec

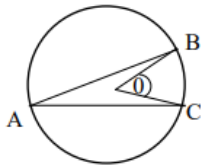
Your answer is incorrect.

The correct answer is: 4 km/h

**Question 20**

Not answered

Marked out of 1.00



If arc  $AB = \text{arc } AC = \text{twice the arc of } BC$ . What is the value of the angle  $BAC$ ?

- a. 72
- b. 36
- c. 104
- d. 22

Select one:

- A
- B
- C
- D

Your answer is incorrect.

The correct answer is: A

**Question 21**

Not answered

Marked out of 1.00

A company has some desks to be cleaned, a contract has been made with a certain agency to clean those desks, if 12\$ is the cost of subscribing with the agency and for every desk cleaned the company will pay extra 7\$. If the equation  $y=7x+12$  represents the total amount of money the company will pay to get  $x$  desks cleaned . What is the best interpretation of 7 in the equation above?

Select one:

- a. total cost to clean all rooms
- b. total amount of money company will pay for one room to be cleaned
- c. the cost the agency set for cleaning one room
- d. the amount of money that will be earned for one room

Your answer is incorrect.

The correct answer is: total cost to clean all rooms

**Question 22**

Not answered

Marked out of 1.00

Which of the following is in the domain of the function  $f(x)=(x^3-3x^2-10x)^{-1}$

- I. 2
- II. 0
- III. 5

Select one:

- a. I and II only
- b. I only
- c. II only
- d. I,II, and III

Your answer is incorrect.

The correct answer is: I and II only

**Question 23**

Not answered

Marked out of 1.00

A party in valla on the pool there are 152 people in the party and there are 30 tables and there are tables that take 4 people and tables that take 6 .how many tables take 6 people ?

Select one:

- a. 14
- b. 15
- c. 16
- d. 17

Your answer is incorrect.

The correct answer is: 14

**Question 24**

Not answered

Marked out of 1.00

The functions  $f(x)=x^2+2x-1$  and  $g(x)=3x-2$  have how many solutions?

Select one:

- a. 0
- b. 1
- c. 2
- d. Many solutions

Your answer is incorrect.

The correct answer is: 0

**Question 25**

Not answered

Marked out of 1.00

If  $3 < m < n < z$ . What could be the value of  $5^{m-1} \times 2^{n-2} \times 3^{z-3}$  ?

$$m+n+z=16$$

Select one:

- a. 1200
- b. 900
- c. 1000
- d. 300

Your answer is incorrect.

The correct answer is: 1200