

Midterm Test-2020

M C Q

Equations:(Chapter-5)

- The solution of the equation $ax + b = 0$ is
(a) $\frac{a}{b}$ (b) $-b$ (c) $-\frac{b}{a}$ (d) $\frac{b}{a}$
- If a and b are positive integers, then the solution of the equation $ax = b$ will always be a
(a) positive number (b) negative number
(c) 1 (d) 0
- Which of the following is not allowed in a given equation?
(a) Adding the same number to both sides of the equation.
(b) Subtracting the same number from both sides of the equation.
(c) Multiplying both sides of the equation by the same non-zero number.
(d) Dividing both sides of the equation by the same number.
- The solution of which of the following equations is neither a fraction nor an integer?
(a) $2x + 6 = 0$ (b) $3x - 5 = 0$
(c) $5x - 8 = x + 4$ (d) $4x + 7 = x + 2$
- The equation which cannot be solved in integers is
(a) $5y - 3 = -18$ (b) $3x - 9 = 0$
(c) $3z + 8 = 3 + z$ (d) $9y + 8 = 4y - 7$
- If $7x + 4 = 25$, then x is equal to
(a) $\frac{29}{7}$ (b) $\frac{100}{7}$ (c) 2 (d) 3
- The solution of the equation $3x + 7 = -20$ is
(a) $\frac{17}{7}$ (b) -9 (c) 9 (d) $\frac{13}{3}$
- By solving the equation $a = 2 - 9a$, the value of a will be

a).1/5

c).2/5

b).2/3

d).1/2

9.By solving the equation $2a - 2 = 20$, the value of 'a' will be

a).12

c).11

b).14

d).13

Sum of two natural numbers is 32. Then answer 10 to 11.

10.If one number is 10, which of the following is the other numbers?

a. 20

c. 24

b .22

d. 18

11.What is the number when 4 subtracted from it, their difference will be one-fourth of the given sum?

a. 8

c. 14

b. 4

d. 12

12.Which sign is used to express an equation of two mathematical expressions?

a). +

c). x

b) . =

d). None of these

13.What is the name of the equation consist of an unknown data with power one?

a). Binomial equation

c). Trinomial equation

b). Simple equation

d). None of above

14.If $3x-5=13$, then how much is the value of x?

a). 3

c). 5

b). 4

d) . 6

Answer of the question no (15-17) using following information-

a) Right

c) Above

b) Left

d) Below

11.The additive inverse of -2 is

a. -2

c. 3

b. +2

d. None of these

12.The integer which is more than 5 is-----

a. 8

c. 2

b. -8

d. 5

13.What is the set of negative number and whole numbers called?

a. The set of natural numbers

c. The set of positive number

b. The set of integers

d. The set of negative number

14.Which of the following is the greatest negative integer?

a. -100

c. -1

b. Does not exist

d. -9

15.Which number is neither positive nor negative?

a. 1

c. 0

b. 5

d. 10

16.Which of the following lists gives 5 negative integers greater than -9?

a. -6, -8, -2, -5, -4

c. 1, 2, 3, 4, 5,

b. -6, -7, -8, 1, 2

d. 8, 7, 6, 5, 4

17.Pick the smallest of the integers -8,

-800, 8, 800 and -808

a. -8

c. 800

b. -800

d. -808

18. What is the additive inverse of (-48)

a. -48

c. 0

b. 48

d. 1

19. What is the number of negative integers between -11 and 11

- a. 10
- b. 11
- c. 0
- d. 22

20. Find the number of integers between 0 and 6

- a. 8
- b. 6
- c. 15
- d. 5

21. In addition, and subtraction of two integers, sign of the answer depends upon

- (a) Smaller number
- (b) Their difference
- (c) Their sum
- (d) Greater numerical value

22. Sum of two negative number is always

- (a) Positive
- (b) Negative
- (c) 0
- (d) 1

23. Sum of two Positive number is always

- (a) Negative
- (b) Positive
- (c) 1
- (d) 0

24. Sum of -36 and 29 is

- (a) -65
- (b) 65
- (c) -7
- (d) 7

25. Sum of -19 and -21 is

- (a) -40
- (b) 40
- (c) 2
- (d) -2

26. Which of the following statement is false?

- (a) $-7 + (-6) = -13$
- (b) $-5 + 1 = 4$
- (c) $2 + (-1) = 1$
- (d) $8 + (-9) = -1$

27. The pair of integers whose sum is -5

- (a) 1, -4
- (b) -1, 6
- (c) -3, -2
- (d) 5, 0

28. What integers or number should be added to -5 to get 4

- (a) 1 (c) -9
(b) -1 (d) 9

29. What will be the additive inverse of -5

- (a) -6 (c) 3
(b) -4 (d) 5

30. What will be the additive inverse of 7

- (a) -7 (c) -5
(b) -6 (d) -4

31. Predecessor of -9 is

- (a) -8 (c) -10
(b) 8 (d) 10

32. Successor of -1 is

- (a) -2 (c) 1
(b) 0 (d) 2

33. The value of $6 - (-3)$ is

- (a) 3 (c) -3
(b) -9 (d) 9

34. The value of $26 - 30$ is equal to

- (a) 4 (c) -56
(b) -4 (d) 56

35. Which of the following statement is true

- (a) $7 - 4 = 4 - 7$ (c) $7 - 4 < 4 - 7$
(b) $7 - 4 > 4 - 7$ (d) $7 - 4 = -3$

36. Choose appropriate number for blank: $-7 - () = 2$

- (a) 5 (c) 9
(b) -5 (d) -9

37. Multiplication of 3 and -4 is

- (a) -7 (c) -12
(b) 12 (d) 7

38. Multiplication of $-2, -7$ and -10 gives

- (a) -34 (c) -140
(b) 19 (d) 90

39. Subtract $(+ 3)$ from $(- 3)$.

- (a) 6 (c) 7
(b) -6 (d) 8

40. Find the value of $(- 7) - 8 - (- 25)$

- (a) 10 (c) 5
(b) -10 (d) -5

Algebraic Expressions:(Chapter- 4)

1. What are the coefficient of x and y in $4x+12y$?

- a) 16 (c) $12, 4$
b) 8 (d) $4, 12$

2. Which one of the following is the coefficient of x in $7x+9y$?

- a) 7 (c) 16
b) 9 (d) 12

3. $(+35) + (-45) + (55) + (11) =$ what?

- a) 54 (c) 56
b) 58 (d) 57

4. Which one of the following is the coefficient of b in $5a+7b+2c$?

- a) 5 (c) 2
b) 7 (d) 12

5. How many terms are there in the expression $2x+5y \times 2x-3y \div 2x-6y$?

- a) 1
b) 2
- c) 3
d) 4

6. How many terms are there in the expression $3x \times 4y \div 2z$?

- a) 1
b) 2
- c) 3
d) 4

7. What is the difference of y times x is subtracted from a times 3?

- a) $xy - 3a$
b) $x - y - 3a$
- c) $3a - xy$
d) $3a - x - y$

8. $2x^5 \times 7x^2 \times 3y^3 =$ what?

- a) $4x^6y^3$
b) $14x^7y^3$
- c) $42x^7y^3$
d) $48x^7y^3$

9. If the price of an orange is taka x, then what is the price of 12 oranges?

- a) 12
b) x
- c) $12 + x$
d) $12x$

10. If the price of a pen is x, notebook is y and a pencil is z, then what will be the price of three pens, one notebook and two pencils?

- a) $x + y + z$
b) $3y + x + 2z$
- c) $3x + y + z$
d) $3x + y$

11. The coefficient of x in $8 - x + y$ is _____

- a). - 1
b). 1
- c). 8
d). 5

12. The algebraic expression for "Number 5 added to three times the product of numbers m and n" is _____

- a). $5 + 3mn$
b). $3 + 5mn$
- c). $(5+3) mn$
d). $5+3n$

13. The value of the expression $5n - 2$ when $n = -2$ is _____

- a). 12
b). -12
- c). 8
d). -8

14. Terms are added to form _____

- a). expressions
b). Variables
- c). constants
d). operations

15. Which of the following is the numerical coefficient of x^2y^2 ?

a). 0

c). x^2

b). 1

d). y^2

Md. Masud Rana

Assistant Teacher (Mathematics)

Cosmo School