CITY GROUP OF SCHOOLS

1. $30 \times (-23) + 30 \times 14 = ?$

   A.-270   B. 270   C. 1110   D. -1110

2. By how much does -3 exceed -5?

   A.-2   B. 2   C. 8   D. -8

3. For integers :

   A. Addition is associative   B. Addition is commutative

   C. Integer "0" is the identity under addition   D. All of the above

4. Find the value of the expression below:

   $0 - 1 + 2 - 3 + 4 - 5 + 6 - 7 + 8 - 9 + \ldots - 17 + 18 - 19 + 20.$

   A. 10   B. 0   C. -10   D. 20

5. Which of the following divisions has the greatest quotient?

   A. $20 \div (-4)$ B. $20 \div 4$ C. $(-20) \div (-5)$ D. $(-30) \div 5$

6. $12 \div 3 \times 5 - 8$ is equal to :

   A. 12   B. 6   C. 28   D. 10

7. $(-9) + 4 (6 - \overline{8 + 4})$

   A.-15   B. -33   C. 10   D. 33

8. $3 - 0 (5 + 9)$ is equal to :

   A.0   B. -11   C. 3   D. -42

9. Subtract the sum of 18 and -23 from the difference of -34 and -43.

   A.-14   B. 6   C. 14   D. 4

10. The additive inverse of 0 is

    A. 0   B. -1   C. 1   D. None

11. A number is divided by itself and the result is multiplied by additive inverse of itself. Find the result.

    A. 2   B. -1   C. 1   D. None

12. A number is multiplied by its multiplicative inverse and the result is added to its additive inverse. Find the number.

    A. 2   B. 1/2   C. -1   D. 0

13. The difference between the squares of any two consecutive natural number is always

    A. odd   B. even   C. square   D. none

14. The greatest negative integer is

    A.-100   B. -1   C. -9   D. does not exist

15. Smallest negative number

    A.-1   B. -10   C. 0   D. does not exist

16. Find the remainder When $7^{21} + 7^{22} + 7^{23} + 7^{24}$ is divided by 25

    A. 7   B. 1   C. 0   D. Can't determined

17. If n = 1 + x, where x is the product of four consecutive positive integers then which of the following is/ are true.

    I. n is odd   II. n is prime   III. n is a perfect square

    A. I and III only   B. I and II only   C. I only   D. None

18. Which one of the following is the rational number lying between $\frac{6}{7}$ and $\frac{7}{8}$?

    A. $\frac{3}{4}$ B. $\frac{99}{122}$ C. $\frac{95}{112}$ D. $\frac{97}{112}$

19. Three natural numbers are said to be tri-prime if they are pair-wise co-prime. Then one triplet which is not tri-prime is

    A. (2,3,7)   B. (2,9,11)   C. (3,5,7)   D. (3,4,9)

20. What is the unit's digit of the product of all prime numbers between 1 and 100

    A. 0   B. 1   C. 2   D. 4

21. If X = (−3) − (−8) − (+ 4), Y = (−10) − (−3) + (−4) then:

    A. X < Y   B. X > Y   C. Y = X   D. None of these

22. If P = (−8) + (−3) + (+7)

    Q = (−9) + (+3) + (+3) + (+2) +(−9)

    R = (−6) + (−8) + (+3) + (+2) + (−9) then P + Q + R + 27 =

    A. -1   B. -2   C. -4   D. None

23. If A = (+7) + (−10)

B = (−3) + (−8)

C = (+9) + (−13) then arrange A, B, C in ascending order:

A. A, B, C   B. C, B, A   C. B, C, A   D. B, A, C

24. If (−8) + (−9) = x, (+10) + (−2) = y, (+11) + (−13) = z the $x + y + z =$

A. -11   B. -12   C. -13   D. -10

25. Absolute value of −11 is:

A. 10   B. -1   C. 11   D. -11

26. What will be multiplicative inverse of −8?

A. 8   B. 1/8   C. -1/8   D. 0

27. Which of the following statement is true?

A. $7 \div 0 = 7$ B. $7 \div 0 = 0$ C. $7 \div 0 = 0 \div 7$ D. $0 \div 7 = 0$

28. Absolute value of '0' is

A. 0   B. 1   C. -1   D. None

29. The value of $28945 \times 99 - (−28945)$ is

A. 2894500   B. −2894500   C. 289450   D. 28900

30. Successor of − 576

A. -575   B. -577   C. -578   D. -574

CITY GROUP OF SCHOOLS

SUBJECT: Mathematics   Topic: Integers

Date: Class: VII   Max. Marks:

1	A	2	B	3	D	4	A	5	B	6	A	7	B	8	C	9	C	10	A
11	B	12	D	13	A	14	B	15	D	16	C	17	A	18	D	19	D	20	A
21	B	22	D	23	C	24	A	25	C	26	C	27	D	28	A	29	A	30	A