

**CHAPTER-6****NEGATIVE NUMBERS AND INTEGERS****QUESTION BANK****AVERAGE LEVEL QUESTIONS**

Q1. In each of the following pairs, replace \* with < or > to make the statement true:

(i)  $3 * 0$

(ii)  $0 * - 8$

(iii)  $- 9 * - 3$

(iv)  $- 3 * 3$

(v)  $5 * - 1$

(vi)  $- 13 * 0$

(vii)  $- 8 * - 18$

(viii)  $2 * 5$

(ix)  $0 * 3$

(x)  $0 * - 7$

(xi)  $- 18 * 15$

(xii)  $- 235 * - 532$

(xiv)  $- 20 * 20$

2. In each of the following pairs, state which integer is greater :

(i)  $- 15, - 23$

(ii)  $- 12, 15$

(iii)  $0, 8$

(iv)  $0, - 3$

3. In each of the following pairs, state which integer is smaller :

(i)  $0, - 6$

(ii)  $2, - 3$

(iii)  $15, - 51$

(iv)  $13, 0$

4. In each case, arrange the given integers in ascending order, using a number line:

(i) -8, 0, -5, 5, 4, -1

(ii) 3, -3, 4, -7, 0, -6, 2

5. For each of the statements given below, state whether it is true or false:

(i) The smallest integer is 0.

(ii) The opposite of -17 is 17

(iii) The opposite of zero is zero

(iv) Every negative integer is smaller than 0

(v) 0 is greater than every positive integer

(vi) Since zero is neither negative nor positive, it is not an integer

6. Which number in each of the following pairs is smaller?

(i) 0, -4

(ii) -3, 12

(iii) 8, 13

(iv) -15, -27

7. Which number in each of the following pairs is larger?

(i) 3, -4

(ii) -12, -8

(iii) 0, 7

(iv) 12, -18

8. Express the given situation as positive or negative integers:

(i) Going 15<sup>th</sup> floors above the ground.

(ii) Moving 30 m below sea level.

(iii) Withdrawing \$6500 from a bank.

(iv) Going 2 floors above the ground.

(v) Flying 3500 km above the sea level.

9. Write all integers between:

(i) -7 and 3

(ii) -2 and 2

(iii)  $-4$  and  $0$

(iv)  $0$  and  $3$

10. Replace  $*$  in each of the following by  $<$  or  $>$  or  $=$  that the statement is true:

(i)  $2 * 5$

(ii)  $0 * 3$

(iii)  $0 * -7$

(iv)  $-18 * 15$

(v)  $-235 * -532$

(vi)  $-20 * 20$

11. Write the following integers in decreasing order:

(i)  $-15, 0, -2, -9, 7, 6, -5, 8$

(ii)  $-154, 123, -205, -89, -74$

12. Write the opposite of each of the following:

(i) Increase in population

(ii) Depositing money in a bank

(iii) Earning money

(iv) Gaining a weight of  $4\text{kg}$

(v) A loss of Rs  $1000$

(vi)  $25$

(vii)  $-15$

13. Indicate the following by using integers:

(i)  $25^\circ$  above zero

(ii)  $5^\circ$  below zero

(iii) A profit of Rs  $800$

(iv) A deposit of Rs  $2500$

(v)  $3\text{km}$  above sea level

(vi)  $2\text{km}$  below level

**MODERATE LEVEL QUESTIONS**

14. Which number in each of the following pairs is smaller?

(i) 0, -4

(ii) -3, 12

(iii) 8, 13

(iv) -15, -27

15. Which number in each of the following pairs is larger?

(i) 3, -4

(ii) -12, -8

(iii) 0, 7

(iv) 12, -18

16. Write all integers between:

(i) -7 and 3

(ii) -2 and 2

(iii) -4 and 0

(iv) 0 and 3

17. How many integers are between?

(i) -4 and 3

(ii) 5 and 12

(iii) -9 and -2

(iv) 0 and 5

18. Write the following integers in increasing order:

(i) -8, 5, 0, -12, 1, -9, 15

(ii) -106, 107, -320, -7, 185

19. Write the following integers in decreasing order:

(i) -15, 0, -2, -9, 7, 6, -5, 8

(ii) -154, 123, -205, -89, -74

20. (i) Write 4 negative integers less than -10.

(ii) Write 6 negative integers just greater than -12.

21. Which of the following statements are true?

(i) The smallest integer is zero.

- (ii) The opposite of zero is zero.
- (iii) Zero is not an integer.
- (iv) 0 is larger than every negative integer.
- (v) The absolute value of an integer is greater than the integer.
- (vi) A positive integer is greater than its opposite.
- (vii) Every negative integer is less than every natural number.
- (viii) 0 is the smallest positive integer.

#### HIGHER LEVEL QUESTIONS

22. Find the additive inverse of each of the following integers:

- (i) 52
- (ii)  $-176$
- (iii) 0
- (iv) 1

23. Find the successor of each of the following integers:

- (i)  $-42$
- (ii)  $-1$
- (iii) 0
- (iv)  $-200$
- (v)  $-99$

24. Find the predecessor of each of the following integers:

- (i) 0
- (ii) 1
- (iii)  $-1$
- (iv)  $-125$
- (v) 1000

25. Which of the following statements are true?

- (i) The sum of a number and its opposite is zero.
- (ii) The sum of two negative integers is a positive integer.
- (iii) The sum of a negative integer and a positive integer is always a negative integer.

(iv) The successor of  $-1$  is  $1$ .

(v) The sum of three different integers can never be zero.

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