



I. Objective Questions:

Q1. Which of the following statements are true?

- A. The smallest integer is zero.
- B. The opposite of zero is zero.
- C. Zero is not an integer.
- D. 0 is larger than every negative integer.
- E. The absolute value of an integer is greater than the integer.
- F. A positive integer is greater than its opposite.
- G. Every negative integer is less than every natural number.
- H. 0 is the smallest positive integer.
- I. The sum of a number and its opposite is zero.
- J. The sum of two negative integers is a positive integer.
- K. The sum of a negative integer and a positive integer is always a negative integer.
- L. The successor of -1 is 1.
- M. The sum of three different integers can never be zero.

II. Short Answer Questions:

Q1. Write the opposite of each of the following:

- (i) Increase in population
- (ii) Depositing money in a bank
- (ii) Going North
- (iv) A loss of Rs 1000
- (v) 25
- (vi) -15



Q2. Indicate the following by using integers:

- (i) 25° above zero
- (ii) 5° below zero
- (iii) 3km above sea level
- (iv) 2km below level

Q3. Mark the following integers on a number line:

- (i) -4

Q4. Write all integers between:

- (i) -7 and 3

Q5. Write the following integers in increasing order:

- (i) $-8, 5, 0, -12, 1, -9, 15$
- (ii) $-106, 107, -320, -7, 185$

Q6. Write the following integers in decreasing order:

- (i) $-15, 0, -2, -9, 7, 6, -5, 8$
- (ii) $-154, 123, -205, -89, -74$

Q7. Using the number line, write the integer which is:

- (i) 4 more than -9

Q8. Write the absolute value of each of the following:

- (i) 0
- (ii) -248
- (iii) $a - 7$, if a is greater than 7
- (iv) $a + 4$, if a is greater than -4

Q9. Which of the following is false:



(i) $|4 - 2| = |4| - |2|$

(ii) $|(-2) + (-4)| = |-2| + |-4|$

Q10. Find an integer x such that

(i) $x + 1 = 0$

(ii) $-3 + x = 0$

(iii) $x + (-8) = 0$

Q11. Find the value of:

(i) $-27 - (-23)$

(ii) $-17 - 18 - (-35)$

Q12. Subtract the sum of -5020 and 2320 from -709 .

Q13. The sum of two integers is 238 . If one of the integers is -122 , determine the other.

Q14. Replace * by < or > in each of the following to make the statement true:

(i) $(-6) + (-9) * (-6) - (-9)$

(ii) $(-12) - (-12) * (-12) + (-12)$

(iii) $(-20) - (-20) * 20 - (65)$

Q15. $(-12) \times (-9) - 6 \times (-8)$ is equal to

(a) 156

(b) 60

(c) -156

(d) -60