Choose the correct option.

1. Which of the following statement is true?
   (a) Additive inverse of –5 is 5
   (b) –1 lies on the right of 0 on the number line.
   (c) –7 is greater than –3 .
   (d) The sum of three integers can never be zero.

2. The sum of two integers having negative sign is
   (a) Zero
   (b) Always negative
   (c) Always positive
   (d) Sometimes negative sometimes positive

3. Sum of two negative number is always
   (a) Positive
   (b) Negative
   (c) 0
   (d) 1

4. Sum of – 36 and 29 is
   (a) – 65
   (b) 65
   (c) – 7
   (d) 7

5. Which of the following statement is false:
   (a) $-7+(-6)=-13$
   (b) $-5+1=4$
   (c) $2+(-1)=1$
   (d) $8+(-9)=-1$

Objective Type Questions

6. Largest 3 – digit negative integer is _____.

7. A negative integer is always than _____ zero. [greater/smaller]

8. Farther a number from zero on the right _____ is its value.

9. $-20^{\circ}C$ represent temperature "above $20^{\circ}C$ ". (True/ False)

10. The predecessor of the greatest negative integer is – 1. (True/ False)
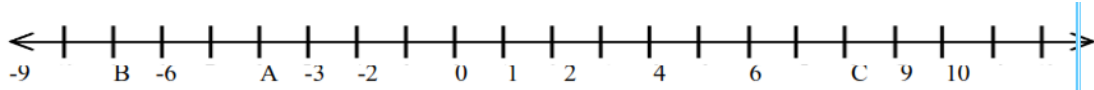
Short/Long answers

11. Draw a number line and answer the following
    (a) Which number will we reach if we move 9 steps to the Left of 8 ?
    (b) If we are (– 5) on the number line, in which direction should we move to reach 3 ?
    (c) write the integer which is 6 more than – 4

12. Solve:
    (a) $(-34)+(-40)$
    (b) $20-(-13)+11-(-9)$
    (c) $2+(-30)+(-5)+5$
    (d) $(-24)-48$
    (e) $(-7)-(-3)+8$
    (f) $35-(-16)+19$

13. (i) Write negative integers greater than – 3.
    (ii) Write five consecutive integers just before (– 18).
    (iii) Write two distinct integers whose sum is equal to one of the integers.

13. Give the additive inverse of
    (a) – 50
    (b) $-4+5$
    (c) $-(-3)$
    (d) Sum of the greatest and the smallest one – digit natural number?

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14. The sum of two integers is 71, If one of the integer is (– 145). Find the other.

15. A man travelled 137km to east of Bangalore and then 235km to the west from that point. How far from Bangalore was he finally?

16. **Case Study Question**

Given below is the number line. Using the number line, answer the following questions.

(a) Find the value of A, B and C.

(b) Which integer is 3 places to the right of B ?

(c) Which integer is 4 places to the left of A ?

(d) Find the sum of A,B and C .

(e) Find the additive inverse of B .

(f) How many integers are between A and C ?

17. **Source Based Question**

Suppose David and Mohan have started walking from zero position in opposite directions. Number of steps to the right of zero are represented by + sign and to the left of zero are represented by – sign. Mohan is at + 6 and David is at – 4 .

(a) Identify the integer 8 steps to the right of zero.

(b) Identify the integer 6 steps to the left of zero.

(c) Find the position of Mohan and David.

(d) If Riya is 2 steps to the left of Mohan, identify the integer at which Riya has reached.

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