CLASS – VII: CHAPTER – 1 INTEGERS

By B Banerjee

- 1. Write the opposite of each of the following: (i) Increase in class strength (ii) going north (ii) A loss of Rs 1000 2. Indicate the following by integers: (i) 25° above zero (ii) 5° below zero (iii) 300 m above the sea level (iv) 250m below the sea level (v) A profit of Rs. 2000 3. Represent the following integers on number line: (i) –4 (ii) 7 (iii) –8 4. Write all the integers between: (i) –7 and 3 (ii) – 2 and 2 (iii) -4 and 0 5. How many integers are between: (i) -9 and -2 (ii) -4 and 3(iii) 5 and 12 6. Represent the following using integers with proper sign: (a) 4.5 km above sea level (b) A loss of Rs 300 (c) Increase of population of 2 lakh 7. Find the sum of the pairs of integers: (a) -6, -4 (b) 3, -4 (c) +4, -28. Find the sum of -2 and -3, using the number line. 9. Subtract : (i) 3 from -4 (ii) -3 from -4 10. Using the number line, subtract : (a) 2 from -3 (b) -2 from -3. 11. How many integers are there between -9 and -2? 12. Calculate: 5 - 2 + 3 - 4 + 8 - 6 + 7 - 8 + 9 - 1013. The sum of two integers is 47. If one of the integers is -24, find the other. 14. Write the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 in this order and insert '+ 'or '-' between them to get the result (a) 5 (b) -315. Compute each of the following: (a) 30 + (-25) + (-10) (b) (-20) + (-5)(c) 70 + (-20) + (-30) (d) -50 + (-60) + 50(e) 1 + (-2) + (-3) + (-4) (f) 0 + (-5) + (-2)(g) 0 - (-6) - (+6) (h) 0 - 2 - (-2)
- 16. If we denote the height of a place above sea level by a positive integer and depth below the sea level by a negative integer, write the following using integers with the appropriate signs:
 - (a) 200 m above sea level(b) 100 m below sea level
 - (c) 10 m above sea level(d) sea level

17. Write the opposite of each of the following:

- (a) Decrease in size
- (b) Won the match
- (c) Profit of Rs.10
- (d) 1000 A.D.
- (e) Rise in water level
- (f) 60 km south
- (g) 10 m above the danger mark of river Ganga
- (h) 20 m below the danger mark of the river Brahmaputra
- (i) Winning by a margin of 2000 votes
- (j) Depositing Rs.100 in the Bank account
- (k) 20°C rise in temperature.

18. Temperature of a place at 12:00 noon was +5°C. Temperature increased by 3°C in first hour and decreased by 1°C in the second hour. What was the temperature at 2:00 pm?

- 19. Write the digits 0, 1, 2, 3, 9 in this order and insert '+' or '-' between them to get the result -7.
- 20. Write the integer which is its own additive inverse.
- 21. Write three positive and three negative integers whose sum is 7.
- 22. Write the integer which is 10 more than its additive inverse.
- 23. Write the integer which is 3 less than its additive inverse.
- 24. Write two integers whose sum is less than both the integers.
- 25. Write two distinct integers whose sum is equal to one of the integers.
- 26. Using number line, how do you compare
- (a) two negative integers? (b) two positive integers? (c) one positive and one negative integer?
- 27. Observe the following : 1 + 2 3 + 4 + 5 6 7 + 8 9 =
- 28. write a negative integer and a positive integer whose difference is 5.
- 29. Arrange the following integers in the ascending order : -2, 1, 0, -3, 4, -5
- 30. Arrange the following integers in the descending order : -3, 0, -1, -4, -3, -6
- 31. Write two integers whose sum is 6 and difference is also 6.
- 32. Write five integers which are less than -100 but greater than -110.
- 33. Write four pairs of integers which are at the same distance from 1 on the number line.
- 34. The sum of two integers is 30. If one of the integers is -42, then find the other.
- 35. Sum of two integers is -80. If one of the integers is -90, then find the other.