I. Choose the correct answer: 15x1=15

1. The difference between $\frac{12}{7}$ and $\frac{9}{7}$ is _____

   a. $\frac{12}{9}$ b. $\frac{9}{12}$ c. $\frac{3}{7}$ d. $\frac{7}{3}$

2. The reciprocal of $\frac{9}{8}$ is _____.

   a. $\frac{8}{9}$ b. $\frac{9}{17}$ c. $\frac{7}{19}$ d. $\frac{17}{19}$

3. $\frac{2}{3} \times \frac{3}{2}$ = _____. a. 3   b. 1   c. $\frac{5}{6}$ d. $\frac{6}{5}$

4. $8 \div \frac{1}{2}$ = _____. a. 8   b. 16   c. 2   d. 1

5. The number which has it own reciprocal is _____.

   a. 0   b. 10   c. 5   d. 1

6. The mixed fraction of $\frac{3}{2}$ is _____.

   a. $2\frac{1}{3}$ b. $3\frac{1}{2}$ c. $1\frac{1}{2}$ d. $2\frac{7}{8}$

7. $\frac{1}{8} + \frac{4}{8}$ = _____. a. $\frac{14}{8}$ b. $\frac{5}{8}$ c. $\frac{8}{5}$ d. $\frac{8}{14}$

8. The opposite of – 300 is _____.

   a. 300   b. -300   c. 30   d. -30

9. Compare – 15 ☐ -26

   a. >   b. <   c. =   d. Cannot be compared

10. Which is the smallest value among -8, 5, 2, -6.

   a. -8   b. 5   c. 2   d. -6

11. -46 is to the _____ of -35 on the number line.

   a. right   b. left   c. next   d. negative

12. One unit to the right of -7 is _____.

   a. + 1   b. – 8   c. – 7   d. – 6

13. The number which determines marking the position of any number to its opposite on a number line is _____.

   a. – 1   b. 0   c. 1   d. 10

14. The number 0 is _____.

   a. positive   b. negative   c. neither positive nor negative

   d. both positive and negative

15. Integers are denoted by the letter _____.

   a. Z   b. I   c. N   d. W

II. Match the following: 5x1=5

16. Largest negative integer   -   0

17. Smallest positive integer   -   2/3

18. Proper fraction   -   1

19. Neither positive nor negative -   8/5

20. Improper fraction   -   -1

III. Answer any ten questions: (Q. No: 26 is Compulsory)   10x3=30

21. Mark the following numbers on a number line.

   -3, 0, 2, -1, 5, 4

22. Write all the integers between – 3 and 4 using number line.

23. On the number line, which number is 5 units to the left of 3?

24. Put the appropriate signs as <, > or = in the box.

   a. – 7 ☐ 8

   b. 0 ☐ -40

   c. -99 ☐ -99

25. Convert $\dfrac{99}{7}$ into mixed fraction

26. Find the opposite of the following integers.

    a. – 312

    b. 789

    c. 0

27. Convert $12\dfrac{1}{9}$ into improper fraction.

28. Multiply $\dfrac{2}{3}$ x 6

29. Divide $\dfrac{4}{3} \div \dfrac{5}{9}$

30. Which is smaller? $\dfrac{5}{9}$ or $\dfrac{3}{8}$

31. Add: $\dfrac{5}{6}$ and $\dfrac{21}{6}$

32. Subtract: $\dfrac{8}{9}$ and $\dfrac{5}{9}$.

IV. Answer any four questions: 4x5=20

33. Simplify: $1\dfrac{3}{5} + 5\dfrac{4}{5}$.

34. Subtract: $1\dfrac{3}{5}$ from $2\dfrac{1}{3}$

35. An oil can contains $3\dfrac{1}{2}$ litres oil of which $2\dfrac{1}{2}$ litres of oil is used. How much oil is left over?

36. Arrange the following integers in ascending order.

    - 11, 12, - 13, 14, - 15, 16, - 17, 18, - 19, - 20.

37. A, B, C and D are four different integers on a number line. From the following clues find these integers and write them in descending order.

    i. A is the least of the given integers.

    ii. C is the smallest positive integer.

    iii. The integers A and D are at the same distance from 0.

    iv. B is 2 units to the left of integer C.

38. Say True or False:

    a. 0 is positive integer.

    b. – 1 is negative integer.

    c. 1 is the reciprocal of its own.

    d. $3\dfrac{1}{2}$ can be written as $3 + \dfrac{1}{2}$

    e. All whole numbers are integers.

V. FBT: (5)

39. Write any 5 integers which are less than – 10 and also multiplies of 3.