SUBJECT- MATHEMATICS
CLASS-VI
CHAPTER – LINEAR EQUATIONS
STANDARD

Choose the correct answer

1. $x - 4 = -2$ has a solution _____.
   a.6   b.2   c. -6   d. -2
2. The equation $4x + 8 = 16$ is satisfied by the following value of x
   a.4   b. 2   c. 12   d.-12
3. If $8x - 3 = 25 + 17x$, then x is _____.
   a. fraction   b.an integer   c.a rational number   d.cannot be solved
4. Which of the following is a linear equation?
   a.$x^2 + 1$ b.$y^2 + z$ c.$x^3 + 7$ d. $z + 7$
5. The value of x for which the expressions $3x - 4$ and $2x + 1$ became equal is
   a.-3   b.0   c.5   d.1

Fill in the blanks

6. If $7x + 8 = 22$ then value of x is _____.
7. The variable used in the equation $3p + 8 = 18$ is _____.
8. The solution of the equation $3x - 4 = 1 - 2x$ is _____.

Answer the following questions

9. Solve the equation $8x - 16 = 96$
10. $x = 5$ is the solution of the equation $3x + 2 = 20$ write the statement is true or false.
11. If $2x + 1 = 0$, then find the solution of the equation.

Short answer type questions I

12. Write any two binomial linear equations.
13. $\frac{2}{3}x + 15 = 3$ convert into statement.
14. If $2x + 18 = 20$, then find the value of x.

Short answer type questions II

Solve the following equations:

15. $3(x+5) = 18$
16. $\frac{z+3}{5} = 6$
17. $3y + 11 = 4y - 12$
18. **Convert into linear equation.**

   a. Twice a number decreased by 18 is 7
   b. One third of a number added to 2 is 18
   c. Thrice a number increased by 5 is 10

Long answer type questions

19. $16(2x+5) + 8 = 36 + x$ solve the equation and check the solutions.

20. $8x + 4 = 3(x - 1) + 7$ solve the equation.