

VIII - Mathematics Test No-03 - linear Equations -In One variable - MCQ - Type

Choose the Correct Answer from the multiple answers.

Max. Marks = 50; Max. Time = 90 min

General Instructions:

1. In all there are 25 questions
2. Each question carries 02 marks
3. There is no negative marking.
4. Selecting more than one answer in any question leads to 00 mark

(Q1) The highest power of the variable in a linear equation is

- (i) 1 (ii) 2 (iii) 3 (iv) 0

(Q2) The solution of a linear equation always in the form of

- (i) natural no. (ii) whole no. (iii) Integer
 (iv) In any form

Cont Pg-2

(Q3) Which of the following is a linear equation?

- (i) $x^2 - x = 7$
- (ii) $x^2 = 7$
- (iii) $\frac{2}{x} + \frac{x}{2} = -1$
- (iv) $2x - 1 = 0$

(Q4) Which of the following is a linear equation in one variable

- (i) $\frac{x}{2} = 4$
- (ii) $\frac{x}{2} = y$
- (iii) $\frac{x}{2} + \frac{y}{2} = 1$
- (iv) $2x + 3y = 6$

(Q5) Which of the following is not a correct statement form of $3x - 5 = 7$

- (i) Five is subtracted from $3x$, we get 7
- (ii) The difference of $3x$ from 5 is 7
- (iii) $3x$ is 7 more than 5
- (iv) none of these

(Q6) The solution of the equation $2x + 7 = 9$ is

- (i) 1
- (ii) $\frac{1}{2}$
- (iii) 2
- (iv) $\frac{1}{2}$

(Q7) The algebraic form of the statement, " A number added to 9 is 15" Pg-3

- (i) $15 + 9 = x$ (ii) $x + 9 = 15$ (iii) $x + 15 = 9$
- (iv) None of these

(Q8) In the linear equation $ax+b=0$, 'a' is called

- (i) Constant (ii) Variable (iii) Co-efficient of x
- (iv) none of these

(Q9) An equation is a statement of two algebraic expression with a sign of

- (i) $>$ (ii) $<$ (iii) $=$ (iv) none of these

(Q10) The value of x in the equation $\frac{2}{5}x = 6$ is

- (i) 15 (ii) $\frac{15}{2}$ (iii) $\frac{12}{5}$ (iv) $\frac{5}{12}$

(Q11) Solve for x :

$$2x - 3(x-1) + 2(x+2) = 14, \text{ the value}$$

of x is

- (i) -7 (ii) 7 (iii) 5 (iv) -5

Cont-Pg-4

(Q12) In the linear equation $Cx+d=0$,
 'x' is called

- (i) Coefficient of c (ii) variable (iii) Constant
- (iv) none of these

(Q13) Write algebraically the following statement
 "A number equals its reciprocal"

- (i) $x + \frac{1}{x} = 0$ (ii) $x - 1 = 0$ (iii) $x = \frac{1}{x}$ (iv) $x + 1 = 0$

(Q14) Find a number which when subtracted from 15 gives you 11

- (i) 4 (ii) -4 (iii) 26 (iv) -26

(Q15) The sum of a number and its reciprocal is 2. The number is

- (i) 3 (ii) 2 (iii) 4 (iv) -1

(Q16) The age of your mother is double your age plus 10 years. The age of your mother is 40 years. Your age is

- (i) 25 years (ii) 20 years (iii) 15 years
- (iv) 10 years.

(Q17) Sita is three years older than her sister Geeta. If the sum of their ages is 25 years. The age of Sita is

- (i) 11 years (ii) 12 years (iii) 13 years (iv) 14 years.

(Q18) One side of a square is 14 cm. Its perimeter is

- (i) 28 cm (ii) 42 cm (iii) 56 cm (iv) 55 cm.

(Q19) The sum of two consecutive odd numbers is 16. The largest odd number is

- (i) 7 (ii) 5 (iii) 9 (iv) 11

(Q20) The equation whose solution is not $x=2$ is

- (i) $3x=5$ (ii) $x-6=-2$ (iii) $2x-3=1$
 (iv) $\frac{3}{2}x+1=4$

(Q21) If 2 is subtracted from thrice a number, the result is 7. The number is

- (i) 3 (ii) 6 (iii) 9 (iv) 5

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(Q22) Anil is 15 years older than Arun. Ten years ago Arun was half the age of Anil. Anil's present age is
 (i) 25 years (ii) 30 years (iii) 15 years
 (iv) 40 years.

(Q23) One-fourth of a number is 8. The number is
 (i) 23 (ii) 16 (iii) 32 (iv) 30

(Q24) The solution of equation $\frac{3x-5}{2} = \frac{x+4}{3}$ is
 (i) $3\frac{1}{7}$ (ii) $3\frac{2}{7}$ (iii) $3\frac{3}{7}$ (iv) $3\frac{4}{7}$

(Q25) Solve for x : $2(x-2) - 3(x-3) = 5(x-5)$
 (i) 15 (ii) 10 (iii) 5 (iv) 0
