APPENDIX-C

TEST PAPER
PRE TEST
(EQUATION)
CLASSES IX & XLEVEL

Name of the school _______________________
Name ____________________ Sex Male/Female
Age_______ Class__________ Community tribal/nontribal
Father's occupation ________________________

TOTAL MARKS 25 TIME 25 minutes

INSTRUCTION TO PUPIL

While answering the question attempt each question seriously. Do not waste time for a particular question. Put mark in the block given along with the question. Wrong marking leads to negative marking. Your answer will be kept strictly confidential and used for research purposes only.

Q.No.1.- In $3x^2 + C$ the C is a -
(a) Term ( )
(b) binomial ( )
(c) Factor ( )
(d) Numerical coefficient ( )
(e) None of these ( )

Q.No.2.- In an algebraic expression literal number/ constant are separated by plus (+) or minus (-) is known as
(a) Term of the expression
(b) Monomial of the expression
(c) Factor of the expression
(d) Coefficient of the expression
(e) None of these.

Q.No.3.- In $2X+6=0$ TH $2X$ is a-
(a) Term
(b) Variable
(c) Coefficient
(d) Factor
(e) None of these.
Q.No.4. - A number which are used to write in place of Arithmatical number is known as-
(a) Real constant.
(b) Literal number
(c) Coefficient.
(d) Factor
(e) None of these.

Q.No.5. - A variable is such that its values
(a) Varies
(b) Remains same
(c) Its sign changes
(d) Varies within fixed interval.
(e) None of these.

Q.No.6. - A conditional statement of equality is known as -
(a) Equation
(b) Algebric expression.
(c) In equation.
(d) Factor.
(e) None of these.

Q.No.7. - In any equation there are -
(A) One side
(B) Two side
(C) No side.
(d) Threeside.
(e) None of these.

Q.No.8. - The product of (x-y) and (X+Y) is
(a) $X^2-Y^2$
(b) $X^3-Y^3$
(c) $(X-Y)^3$
(d) $(X+Y)^2$
(e) None of these.
Q. No. 9. - $x = -1$ is a solution of the equation of $x^2 + x + 4 = 0$

(a) Yes
(b) No

Q. No. 10. - Which of the following term is coefficient of

(a) $x^2$
(b) $6x^2$
(c) $6 + x^2$
(d) $6 - x^2$
(e) None of these.

Q. No. 11. - In an equation the symbol used between LHS and RHS is

(a) $>$
(b) $<$
(c) $= $
(d) $>$
(e) None of these.

Q. No. 12. - The value of the variable which makes LHS equal to RHS is known as ________ of the equation.

(a) Factor
(b) Coefficient
(c) Solution
(d) Term
(e) None of these.

Q. No. 13. - If $x = 6$ then $x = ________$

(a) 3
(b) 4
(c) 18
(d) 12
(e) None of these.
Q. No. 14. - If X represents an odd number natural, the next consecutive is—
(a) X² 
(b) X + 1 
(c) 2X 
(d) X + 2 
(e) None of these.

Q. No. 15. - If X = -4, Y = 1 then X³Y¹ is—
(a) -64 
(b) 64 
(c) 63 
(d) -60 
(e) None of these.

Q. No. 16. - (3x)² - 3x² = ————
(a) 6x² 
(b) 0 
(c) X² 
(d) 6 
(e) None of these.

Q. No. 17. - If Y = X - 9, then the value of Y when X = -3 is—
X - 3
(a) 2 
(b) -2 
(c) 0 
(d) Not defined. 
(e) None of these.

Q. 18. - Which one is the factor of the equation X² - 16 = 0—
(a) (X - 4) (X + 4) 
(b) (X - 4) (X - 4) 
(c) (X + 4) (X + 4) 
(d) (X² - 4) (X² + 4) 
(e) none of these.
Q.NO.19. The age of Rama is twice as much as his friend. If their total ages is 30 Years. It is examined by the mathematical relation as

(a) \( X+2X=30 \)  \hspace{1cm} (b) \( 2X+30=0 \)
\[ (C) \frac{X+1}{30} \]  \hspace{1cm} (d) \( X^2+X=30 \)

Q.NO.20. Fill in the gap of the values of \( X \) and \( Y \) for the equation \( X-Y=4 \)

\[
\begin{array}{c|c}
X & 1 \\
Y & 0 \\
\end{array}
\]

\[
\begin{array}{c|c}
Y & 5 \\
\end{array}
\]

Q.NO.21. The graph of the equation \( Y=3X \) is a

(a) Line \hspace{1cm} (b) Circle \hspace{1cm} (C) Curve
\[ (d) \text{ Parabola} \]  \hspace{1cm} (e) Point.

Q.NO.22. The solution of the equation \( 2-Y = 3 \) is \( Y+7 \)

(a) \( \frac{11}{8} \)  \hspace{1cm} (b) 8
\[ (C) 11 \]  \hspace{1cm} (d) -8

Q.NO.23. The solution of the equation \( 5X-7 = 2 \) is \( \frac{3X}{3} \)

(a) - 2  \hspace{1cm} (b) 7
\[ (C) 2 \]  \hspace{1cm} (d) 12
\[ (e) \text{ None of these.} \]

Q.NO.24. The Sum of two number is 45 and their ratio is 7:8. The numbers are

(a) 21, 24  \hspace{1cm} (b) 23, 22
\[ (C) 14, 31 \]  \hspace{1cm} (d) 41,4
\[ (e) \text{ None of these.} \]
Q.NO.15. It -Z- is the Solution of the equation X+3=5
(a) No (b) Yes (C) meaningless
(d) Not possible (e) None of these.

Q.NO.26. Identify the simple linear equation from the Set of equations
(a) X+5=4 (b) X^2+Y+1 = 0
(C) X-9 =0 (d) X^2+X+1=0

Q.NO.27. The solution steps of the equation X+5= 3 (X-15) are necessary.
Arrange them in Correct order.
(a) 2X+3 = 3X-45 (a) i, ii, iii, iv, v
(ii) 2(X+15)=3(X-15) (b) i, v, ii, iii, iv
(iii) -X=-75 (c) ii, I, IV,III,V
(iv) 2X-3X=-45-30 (d) v, ii, I, ii, iii
(V) X=75

Q.NO.28. Match the Solution set with the Corresponding equation.
(a) 2X+5=0 (i) 1
(b) 2X=2 (ii) - 5
(c) 2Y-8=0 (iii) 4
(d) X = 3 (iv) - 3
   2   2
   4

Q.NO.29. In a class of 30 Students, the no. of girls is 1/5 th the no. of boys th no. of boys
(a) 25 (b) 24 (C) 15
(d) 50 (e) 75

Q.NO.30. The length of a rectangular field is three times as much as its Width.
If the perimeter is 96 m, its dimensions are
(a) L = 74 m, B=14 m (C)L=48m, B=48m
(b) L = 14m, B=74 m (d)L=36m  B=12 m