KENDRIYA VIDYALAYA SITAPUR
PERIODIC TEST-I (2022-2023)
CLASS-IX (MATHS)

M.M:-40 **TIME:- 90 MIN**

INSTRUCTIONS:-ALL QUESTIONS ARE COMPULSORY

SECTION –A

IN THIS SECTION 8 MCQ IS BASED ON COMPETENCY BASED QUESTIONS OF 1 MARK EACH AND 4 SIMPLE MCQ QUESTIONS OF 1 MARK EACH (12 X 1=12)

Q.1: Which division will leave a remainder 2?
(a)345 ÷ 3 (b) 536 ÷ 4 (c) 587 ÷ 5 (d) 711 ÷ 9

Q.2: What fractional part of 7777 is 77?
(a)1/11 (b1/77 (c) 1/100 (d) 1/101

Q.3: Find the value of $525^2 - 475^2$.
(a) 100 (b) 10000 (c) 50000 (d) 100000

Q.4: Find the degree of polynomial $\sqrt{2}$.
(a) 2 (b) 0 (c) 1 (d) 12

Q.5: The coordinates of the point which lies on y-axis at a distance of 4 units in negative direction of y-axis is
(a) (5, 4) (b) (4, 0) (c) (0, -4) (d) (-4, 0)

Q.6: Abscissa of all the points on y-axis is
(a) 1 (b) any number (c) 0 (d) -1

Q.7: Equation of a line which is 5 units distance above the x-axis is
(a) x = 5 (b) x + 5 = y (c) y – 5 (d) x – y = 0

Q.8: Which of the following is the equation of a line parallel to y-axis?
(a) y = 0 (b) x + y = z (c) y = x (d) x = a

Q.9: In between any two numbers there are:
(a). Only one rational number (b). Many rational numbers
(c). Infinite rational numbers (d). No rational number

Q.10: The coefficient of x2 in 3x3+2x2-x+1 is:
(a). 1 (b). 2 (c). 3 (d). -1

Q.11: Which of the following points lies on the negative side of x axis?
(a) (-4, 0) (b) (3, 2) (c) (0, -4) (d) (5, -7)

Q.12: 3x+10 = 0 will has:
(a) Unique solution (b) Two solutions
(c) Infinitely many solutions (d) No solutions

SECTION –B (FILL IN THE BLANKS) (4X1 =4)

Q.13:-The Smallest even prime number is …….

Q.14:The degree of the linear polynomial is ……..

Q.15:The co-ordinate of the origin is …….

Q.16:How many solution a linear equation in two variables have …….

SECTION –C (CASE BASE QUESTIONS) (4x2=8)

Q.17 :To enhance the reading skills of grade X students, the school nominates you and two of your friends to set up a class library.

There are two sections- section A and section B of grade X. There are 32 students in section A and 36 students in section B.

(a) What is the minimum number of books you will acquire for the class library, so that they can be distributed equally among students of Section A or Section B?

a) 144 b) 128 c) 288 d) 272

(b) If the product of two positive integers is equal to the product of their HCF and LCM is true then, the HCF (32 , 36) is

a) 2 b) 4 c) 6 d) 8

Q.18: Ankur and Ranjan start a new business together. The amount invested by both partners together is given by the polynomial

p(x) = 4x2 + 12x + 5, which is the product of their individual shares.

(A) Coefficient of x^2 in the given polynomial is

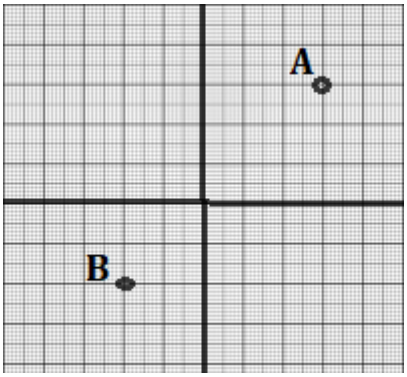
(a) 2 (b) 3 (c) 4 (d) 12

(B) The shares of Ankur and Ranjan invested individually are

(a) (2x + 1),(2x + 5) (b) (2x + 3),(x + 1)

(c) (x + 1),(x + 3) (d) None of these

Q.19:



The co ordinate of the point A is

The co ordinate of the point B is

Q.20:Two friends A and B contribute 100 rupees in prime minister relief fund .then answer the following

(a)Represent the following situation in linear equation in two variable .

(b) draw the graph of the above equation

SECTION –D (Long Answer Question) (4x4=16)

Q.21: Express the following in the form p/q , where p and q are integers and q ≠ 0 (i) 0 .6

Q.22: Divide the polynomial $3x^4 – 4x^3 – 3x – 1$ by x – 1.

Q.23: Write the answer of each of the following questions:

(i) What is the name of horizontal and the vertical lines drawn to determine the position of any point in the Cartesian plane?

(ii) What is the name of each part of the plane formed by these two lines?

(iii) Write the name of the point where these two lines intersect.

Q.24: Draw the graph of x + y = 7.