

FINAL RE-EXAMINATION 2020

D.A.V PUBLIC SCHOOL
DAUDNANGAR

Date _____

Page _____

- (1) 4.25×10^{-7} is equal to -
 (a) 0.425000000 (b) 4250000
 (c) 0.000000425 (d) 0.000000425

- (2) If x and y vary directly with each other and $x=24$, what is y when constant of variation is 3?

- (i) 21 (ii) $\frac{1}{8}$ (iii) 8 (iv) 27

- (3) If selling price of five pens is equal to the cost price of four pens, then the gain or loss % is -

- (i) 20% gain (ii) 20% loss
 (iii) 25% loss (iv) 25% gain

- (4) In $A = P \left[1 + \frac{R}{100} \right]^n$, A stands for -

- (i) Time period (ii) Principal
 (iii) Principal + interest (iv) interest interest

- (5) Factorise form of $y^2 + 3y + y + 3$ is -

- (i) $(y+2)(y+1)$ (ii) $(y+3)^2$
 (iii) $(y+1)(y+3)$ (iv) $y^2 + 3^2$

- (6) Quotient obtained when $(x^2 + 7x - 4)$ is divided

- (i) x (ii) $x-4$ (iii) $x+4$ (iv) $x+2$

7. A number 351 is divided into two parts in the ratio 2:7. The product of the number is —

- (i) 20,294 (ii) 21,294 (iii) 25,295
 (iv) 31,294

8. A Parallelogram having a pair of adjacent sides equal is called —

- (i) Rectangle (ii) Square
 (iii) Rhombus (iv) Both square and Rhombus

9. The diagonal of a rhombus bisect each other at —

- (i) Right angle (ii) Acute angle
 (iii) Obtuse angle (iv) Complete Angle.

10. The number of diagonals a pentagon is

- (i) 2 (ii) 4 (iii) 5 (iv) 3

Fill in the Blanks :-

1. The number of _____ Parts Required to Construct a Quadrilateral.

2. The Probability of Sure event is _____

③ There are _____ vowel in the word 'PROBABILITY'

④ AREA OF TRIANGLE = $\frac{1}{2} \times \text{Base} \times \text{height}$

⑤ Lateral surface area of cube = $4 \times \text{side}^2$

* State the following are True or False

① Pentagon has 6 sides _____

② Volume of cuboid = length $\times$ breadth $\times$ height _____

③ Sum of angles of linear pair is 360° _____

④ Parallel lines intersect to each other _____

⑤ Vertically opposite angles are equal _____

* One word answer

① Probability of ~~sure~~^{certain} event is _____

② What is the Probability of unsure event ?

③ At what angles diagonal bisect each other of parallelograms ?

④ What is the sum of complete angle ?

- ④ Is 5, 7, 9 a Pythagorean triplets
- ⑤ A Quadrilateral in which one pair of side is parallel is known as _____
- ⑥ Sum of Four right angle is known as _____
- ⑦ What is the sum of ^{angle of} a Pentagon?
- ⑧ What is the another name of ~~x~~-axis
~~to~~ y coordinate?
- ⑨ How many sides triangle have?
- ⑩ Square root of 64 = _____
- ⑪ What is the square root of 64?

- ① $x^{\frac{1}{2}} \times x^{\frac{5}{2}}$
- ② What is the cube of 0.1 ?
- ③ What is the square root of 2?
- ④ Define square?
- ⑤ If $5^x = 1$, value of x is —
- ⑥ What is the square root 49?
- ⑦ Cube of 2 is —
- ⑧ How many terms monomial have?
- ⑨ Sum of all angle of Pentagon is —
- ⑩ What is the measure of all angle of Rectangle.
- ⑪ A Seven sided polygon known as —
- ⑫ Regular Polygon are equilateral (True / false).
- ⑬ What do you mean by Range
- ⑭ What is the measure of Right angle?

(15) The angle of turn during rotation is called _____.

(16) $(a+b+c)^2 = a^2 + b^2 + c^2 + 2______ + 2bc + ______ ca.$

(17) Find the value of $(2^7)^0$.

(18) What is the name this sign $\int$?

(19) Find the square root of 9.

(20) Find the square of 9.

True or False for the following statement.

- (1) 650 is not a cube. _____
- (2) Perfect square may end with zero. _____
- (3) Measure of right angle is 90° . _____
- (4) Binomial contains three terms. _____
- (5) $(a-b)^2 = a^2 + 2ab - b^2$. _____

Fill in the Blanks

- (1) Degree of linear polynomial is _____.
- (2) The process of turning an object around fixed point is called _____.
- (3) Letter 'M' has _____ rotational symmetry of order _____.

- ④ Area of trapezium = $\frac{1}{2}(a+b) \times$ _____
 ⑤ x-coordinate is also known as _____

Section - B

* It contain 2 marks:-

- ① Divide $-39x^4$ by $\sqrt{13}x^2$
- ② Evaluate by using identity $\div 103 \times 105$
- ③ By selling 42 oranges a person loses a sum equal to the selling price of eight oranges. Find the loss?
- ④ Five bags of rice weight 150 kg. How many such bags of rice weight will 900 kg?
- ⑤ Find value of $(125)^{\frac{1}{2}}$
- ⑥ Factorise $\div 1000$ and 624
- ⑦ Cube root of 5832 by Prime factorisation
- ⑧ Find the cube of -12 and $\frac{2}{3}$
- ⑨ Simplify $\div 5 \times 8^{\frac{1}{2}}$
- ⑩ Solve the equation $\frac{7-x}{5x+1} = 3$