



R.O.S. Public School

Affiliated to CBSE, New Delhi Upto +2 Level

Class – X

Maths

ASSIGNMENT:-

1. Define these terms:-
Polynomials, Linear Polynomials, Quadratic Polynomial , Cubic Polynomial, Biquadratic Polynomials, Congruent Figure, Similar Figure, Secant, Tangent, Circumference.
2. Write all formula of Algebra. Example: $(a+b)^2 = a^2 + b^2 + 2ab$.
3. Write all formula of mensuration. Exa- Area of Rectangle= Length x Breadth.
4. What is probability? Explain.
5. What is Random Experiment in the term of Probability.

SOLVE THESE PROBLEMS:-

1. Prove that $\sqrt{3}$ is a irrational Number.
2. A man can row downstream 20 km in 2 hours, and upstream 4 km in 2 hours. Find his speed of rowing in still water. Also ,find the speed of the current.
3. Prove that if a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points then the other two sides are divided in the same ratio.
4. The hypotenuse of a right-angled triangle is 6 cm more than twice the shortest side. If the third side is 2 cm less than the hypotenuse, find the sides of the triangle.
5. Find the area of a trapezium whose parallel sides are 11m and 25m long, and the nonparallel sides are 15 m and 13 m long.

PROJECTS:-

Write a biography of great mathematician 'ARYABHATA' in 500 words.

English

1. Fill in the blanks with appropriate conjunctions:-

- (a) I worked hard I failed the exam.
- (b) He fled He was afraid.
- (c) Hurry up, you will be late.
- (d) you try, you will not succeed.
- (e) I am sure she will come.
- (f) Will you wait I return?
- (g) He finished firsthe started late.
- (h) I will not go I am invited.
- (i) He was industrious, I encouraged him.
- (j) The wallet has either been loststolen.
- (k) She is fat she runs fast.
- (l) I don't know she will come or not.
- (m)..... his father's influence, he could not find a good job.
- (n) getting the best possible treatment, his health is not improving.
- (o) he doesn't follow his doctor's advice, his health will deteriorate.

2. Accidents happen when people violate traffic rules. Careless drivers cause suffering to themselves and others. Write an article in 100-120 words on "safe driving."

3. Write an article on the bad effect of covid-19 on Indian economy in about 250 words.
4. Write the structure the of tense on cardboard.
5. Write the structure the of voice on cardboard.

Physics

1. Draw the diagram of sources of light (at least 10).
2. Draw the diagram of human eye. Write the function of iris and pupil.
3. Why light is called form of energy? Justify your answer.
4. How rainbow is formed? Explain with diagram.
5. What is myopia? What are its causes and how it is corrected? Explain with diagram.
6. What is reflection of light? What are its laws? Explain with diagram.
7. What is hypermetropia? What are its causes and how it is corrected? Explain with diagram.
8. What do you mean by refraction of light? Explain with diagram.

Economics & Geography

1. India is rich in certain types of resources but deficient types of resources but deficient in some resources. Supports your answer with examples.
2. Examine the three major problems that have been created due to the indiscriminate use of resources by human beings.
3. Distinguish between biotic and abiotic resources.
4. Distinguish between Banger and Khadar soils by giving four characteristic features of each.
5. Name any two nutrients that alluvial soil is rich in?
6. Imagine if oil supplies get exhausted, how will this affect our lifestyle?
7. On an outline map of India, show the following soils:-
 - (a) Regur Soil
 - (b) Alluvial Soil
 - (c) Mountain or Soil