

HOLIDAY HOMEWORK FOR CLASS-10TH (2020-21)

ENGLISH:-

- 1) A boy sees an old man cutting trees. He goes near that man and talks to him. Write their dialogues in 100 words.
- 2) Collect the data of cases of Covid 19 in four different countries and interpret it in 100-120 words.
- 3) Learn all the Que/ Ans done in class.

HINDI:-

1. निबंध लेखन :-

- क) स्मार्ट क्लास की उपयोगिता। विज्ञापन और हमारा जीवन।
- ग) स्वच्छ भारत अभियान - एक वरदान।
- घ) दया धर्म का मूल है।
- ङ) विदेशों के प्रति बढ़ता मोह।

2. पत्र लेखन :-

- क) प्लास्टिक की चीजों से हो रही हानि के बारे में किसी समाचार पत्र के संपादक को पत्र लिखकर अपने सुझाव दीजिए।
- ख) फैशन में समय और धन का अपव्यय करने वाली छोटी बहन को बड़ी बहन की ओर से एक प्रेरणा पत्र लिखिए।

3. विज्ञापन लेखन :-

- क) एक नई सौंदर्य क्रीम के लिए विज्ञापन तैयार कीजिए।
- ख) शहर में नया स्कूल खुला है कक्षा 9वीं तथा 10वीं के दाखिले शुरू हैं। विज्ञापन तैयार कीजिए।
- ग) प्रकाश बल्ब की बिक्री बढ़ाने हेतु एक विज्ञापन तैयार कीजिए।

4. 21 मई से 30 मई तक के समाचार पत्रों की हेडलाइन काटकर फाइल पेज पर चिपकाएं।

SOCIAL SCIENCE:-

1. What is a sustainable development? give some features of it. how can we achieve sustainable development. give some examples and paste pictures related to it .make any one poster related to it.

(or)

Prepare a report on covid-19 give complete discription on it with the help of pictures graph etc.

2. Learn all the work done in the class

COMPUTER:-

1. Write about (any 5) different types of Web browsers and web servers in your notebook.
2. Write any 10 Dos and Don't that you should keep in mind while using different web services or social networking sites to stay safe in the digital world.

Work Sheet - 1

X - Maths

- * Find the distance between the following pair of points.
 - (i) $(a \sin x, -b \cos x)$ and $(-a \cos x, b \sin x)$
 - (ii) $(a+b, a-b)$ and $(a-b, -a-b)$
- * The base PQ of two equilateral triangles PQR and PQR' with side 2a lies along y-axis such that the mid-point of PQ is at the origin. Find the co-ordinates of the vertices R and R' of the triangle.
- * Find a point on the y-axis which is equidistance from the point A(6,5) and B(-4,3)
- * The x co-ordinate of a point P is twice its y-co-ordinate, if P is equidistance from Q(2,-5) and R(-3,6), then find the co-ordinate of P.
- * Show that the points (a,a) , $(-a,-a)$ and $(-\sqrt{3}a, \sqrt{3}a)$ are the vertices of an equilateral triangle. Also find its area.
- * Find the centre of the circle passing through $(6,-6)$, $(3,-7)$ and $(3,3)$
- * Find the lengths of the medians of ΔPQR whose vertices P(7,-3), Q(5,3) and R(3,-1)
- * Point P divides the line segment joining the points A(-1,3) and B(9,8) such that $\frac{AP}{BP} = \frac{k}{1}$. If P lies on the line $x-y+2=0$, find the value of k.
- * Prove that the co-ordinates of the centroid of the triangle whose vertices are (x_1, y_1) , (x_2, y_2) and (x_3, y_3) are $\left(\frac{x_1+x_2+x_3}{3}, \frac{y_1+y_2+y_3}{3} \right)$
- * Find the centroid of the triangle whose vertices are $(-2,3)$, $(2,-1)$, $(4,0)$
- * Find the third vertex of a triangle, if two of its vertices are at $(-3,1)$ and $(0,-2)$ and the centroid is at the origin.
- * Find area of a triangle whose vertices are $(3,2)$, $(11,8)$ and $(8,12)$
- * Prove that the area of triangle whose vertices are $(t, t-2)$, $(t+2, t+2)$ and $(t+3, t)$ is independent of t.
- * Find the area of the quadrilateral ABCD whose vertices are respectively A(1,1) B(7,-3) C(2,2) and D(7,2)
- * Prove that the points $(a,b+c)$, $(b,c+a)$ and $(c,a+b)$ are collinear.
- * If D, E and F are the mid-points of sides BC, CA and AB respectively of ΔABC then prove that $\text{Area of } \Delta DEF = \frac{1}{4} \text{ Area of } \Delta ABC$

Work sheet - 2

8 - Maths.

* If $\sin \theta = \frac{\sqrt{3}}{2}$ then find $\sec \theta$ and $\cot \theta$

* If $\tan A = \frac{5}{12}$ then find $\frac{\sin A + \cos A - \tan A}{\sec A + \operatorname{cosec} A - \cot A}$

* If $\sec A = \frac{5}{4}$ then find $\frac{4 \tan A + 3 \cot A - 5 \sin A}{5 \sin A + 4 \sec A - 8 \tan A}$

* Evaluate $\sec 45^\circ \tan 30^\circ - \tan 60^\circ \sec 30^\circ$

* Find value of x which satisfies the equation $20 \sec^2 30^\circ + x \sin^2 60^\circ - \frac{3}{4} \tan^2 30^\circ = 10$

* If $\cos \theta = \frac{p}{\sqrt{p^2+q^2}}$, then find $\tan \theta$

* Find value of (i) $\tan 46^\circ - \tan 44^\circ$

(ii) $\frac{\tan 65^\circ}{\cot 25^\circ}$ (iii) $\frac{\sin 43^\circ}{\cos 47^\circ}$

* Find the value of $\left(\frac{\sin 31^\circ}{\cos 59^\circ}\right)^2 + \left(\frac{\cos 29^\circ}{\sin 61^\circ}\right)^2 - 1$

* Find the value of $\frac{\sin(90-A) \cdot \cos(90-A)}{\cot A}$

* Find the value of (i) $\tan 25^\circ \tan 55^\circ \tan 65^\circ \tan 35^\circ$
(ii) $\sin 30^\circ \cos 60^\circ$

* Prove that $(1 + \cot \theta - \operatorname{cosec} \theta)(1 + \tan \theta + \sec \theta) = 2$

* Prove that $\frac{\tan^2 \theta}{\sec \theta + 1} - \sec \theta = -1$

* Find value of $\tan \theta + \cot \theta$

* Find value of $(\sin A + \cos A)^2 + (\sin A - \cos A)^2$

* do All Examples of N.C.B.R.T of chapter 7, 8, 9 and 12