

# HERITAGE CHILDREN ACDEMY

(Senior Secondary School Affiliated to CBSE, New Delhi) NH-24, JALIF NAGLA TEH. MILAK DISTT. RAMPUR (U.P)

## HOLIDAY HOMEWORK CLASS :- X Let's Pen The Pandemic : Covid - 19 **"Education is the passport to the future, for tomorrow belongs to those who prepare for it today."**

# **GENERAL INSTRUCTIONS TO BE FOLLOWED WHILE DOING**

# HOLIDAY HOMEWORK:

- It is compulsory to attempt each subject.
- Summer vacations are going to be started from June 10 to 25, 2020.
- Submit your assignments to Subject teachers as the school reopens.
- Holiday homework should be done as per the given instructions
- Label properly the name, class roll no and subject.
- The work will be assessed for the neat handwriting, presentation, creativity and submission of the work on time.

# ENGLISH

Q 1- Collect 25 new words and 25 phrases to form a dictionary. Write their meanings and make 2 sentences of each word and phrase.

Examples:-

1. Beware

Meaning: Careful

Sentence 1: Beware of thieves as it is dark outside.

Sentence 2: Beware of falling rocks from the top of the mountains.

2. Dirt cheap

Meaning: low price

Sentence 1: They're always selling off stuff like that dirt cheap.

Sentence 2: The auctioneers let us have the stuff dirt cheap.

Q 2- You are Jenny/john head of ABC hospital, Naraina New Delhi. Suddenly the covid19 pandemic broke out in your city. You need some safety stuff to protect your staff from this rapidly spreading disease. Place an order for safety equipment [ PPE, respiratory, surgical masks, gowns, and gloves] that you wish to purchase for your hospital. Write a letter to the manager, M/S GTB Surgical & Co, Preet vihar to send items ASAP with a discount.

- Q 3- Watch these Hollywood movies and try to write a short summary of these movies.
- 1- POLAR EXPRESS
- 2- HOME ALONE 1
- 3- HOTEL TRANSYLVANIA a

## HINDI

ग्रीष्कालीन अवकाश कार्य

प्रधानमंत्री श्री नरेन्द्र मोदी द्वारा लॉकडाउन के दौरान दिए गए संदेशों की एक फाइल तैयार कीजिए । संदेशों का प्रारूप अपने पाठ्यक्रम के अनुसार लिखा जाए।

#### MATHEMATICS

Q.1 Prove that J2 + J3 is irrational. Using Euclid's division algorithm, find the greatest Q.2 number that divides 1251, 9377 and 15628 leaving oremainders 1, 2 and 3 suspectively. Prove that one and only one out of n, n+2 and Q.3 17+4 is divisible by 3, where n is any positive integer. If the sumainders on division of x3+2x2+ Kx+3 Q.Y by 2-3 is 21 find the quotient and the value of K. Hence find the zeraes of the cubic palynomial x+2x2+KX-18. Q.5 Given that J2 is a zero of the palynomial 623+522-102-452 Find Its other two zerals For which values of p and 2, will the following Q.6 pair of linear equations have infinitely many salutions? 4x+ 5y=2 and (2P+72)x+ (P+82)y=22-P+1. salve the pair of linear equations:-2.7 21x+474=110 and 47x+214=162 2.9 Draw the graphs of the pair of linear equations x-y+2=0 and 42-y - 4=0. Calculate the area of the triangle formed by the lines so drawn and the x-axis. Q.9\_ Find the values of x and y in the following rectangle. 2+34 31+4 7 13 If x+1 is a factor of 2x3+ax2+2bx+1, then 2.10 Find the values of a and b given that 2a-3b=4. Q.11 The age of the father is twice the sum of the ages of his two children. After 20 years, his age will be equal to the sum of the ages of his children. Find the age of the father.

Q.12 Jamila sald a table and a chair for 7 1050. thereby making profit of 10% on the table and 25% on the chair. If she had taken a profit 25% on the table and 10% on the chair she would have got \$1065. Find the cost price of each. Q.13 A railway half ticket costs half the full fare, but the reservation charges are the same on a half ticket as on a full ticket one. reserved first class ticket from station A to B. costs 7 2530. Also one reserved first class ticket and one reserved first class half ticket from AtoB costs 7 3910. Find the full first class fare from station AtoB and also the reservation charges for a ticket 2.14 Had Agita scored 10 marks in her mathe test out of 30 marks, I times these marks would have been the square of her actual marks. How many marks did she get in the test 2.15 A train travells at a certain average speed for a distance of 63 km and then travels a distance 72 km at an average speed of 6 km/h more than Its original speed. It It takes 3 hours to complete the total Journey, what is It's original average speed? 2.16 A train travelling at a uniform speed for 360 km, would have taken 48 minutes less to travel the same distance IF Its speed were 5 km/n more. Find the original speed of the train.

19930 Q17 The sum of the first three terms of an AP is 33. 9f the product of first and the third the term exceeds the second termby 29, find the AP. Q.18. Find the sum: (i) (4-ti)+(4-Zi)+(4-Zi)+--upto ntarime. (ii) <u>a-b</u> + <u>3a-2b</u> + <u>5a-3b</u> + ..... to 11 terms. a+b a+b a+b Q.19 If sum of first 6 terms of an AP is 36. and that of the first 16 terms is 256, find the sum of first 10 torms. Q29 salve the equation: 1+4+7+10+ .... +1 = 287 Q21. The vatio of the 11th term to the 18th term of an AP is 2:3. Find the ratio of the 5th term to the 2th term and also the ratio of the fine sum of the first five terms to the sum of the first 21 turms. 2.22 Show that the sum of an AP whose first tarm is a the second twimb and the last twim c is equal to (a+c) (b+c-2a) 2(1-a) 2.23 If the midpoint of the line segment joining. the points A (3,4) and B(K, 6) is P(2, 4) and 2+y-10=0 find the value of K. 224 Find the values of K, IF the points A(K+1,2K) B(3K,2K+3) and C (5K-1, 5K) are callinear. 225 Find the ratio in which the line 2x+3y-5=0 divides the line segment Joining the points. (8, -9) and (2,1). Also find the coordinate of the point of division.

#### SOCIAL SCIENCE

HOLIDAY ASSIGNMENT SOCIAL SCIENCE CLASS 10 PROJECT WORK This is the Board Exam Activity and you all have to do individually evaluation will be done on the basis of your performance and presentation. Dear class 10 Students As you know that in class IX you have already made one project in Social Science in the same way in this 10 class once again you have to develope a Project Report and you have to choose any one topic from the following giving here these all three topics are prescribed by the CBSE FOR SESSION :2020-2021 (1)CONSUMER AWARENESS (2) SOCIAL ISSUES (3) SUSTAINABLE DEVELOPMENT your project report will maximum of 10 pages we are sharing one video related to your project work for your assistance you can go through the Books , Newspaper , Magazine or other relevant sources to make your project more attractive and impressive.

#### **Project on Sustainable Development**

https://youtu.be/YfPTl1rpva0

#### PHYSICS

CLASS X (Physics) DATE PADE Haliday Assignment Three resistors are connected as  $\alpha$ shown in the figure 5-2 10 Am Thorough the resistor 5r. a current of 1A is flowing (i) What is the current through the other +wo resistors? (ii) What is the p.d. across AB and AC. (iii) what is the total , resistance? Two resistors, with resistances 5.2 and 10 respectively are to be connected to a battery of 6V. Find (i) minimum current flowing (ii) maximum current flowing (iii) How will you connect the resistance in case (i) and (ii) ? 3 a with the help of a diagram, derive the formula for the resultant registance of three registors connected in souls. (b) For the circuit shown in the diagnam below -5.52 Teacher's Sion.

DATE 1 race1 Calculate: is the value of current through each resistors. (ii) the total coverent in the circuit. (iii) the total effective resistance of the circuit. (4) A 2 KW heater, a 200WTV and three 100 W lamp are all switched on from 6 p.m. to 10 p.m. what is stotal cast at ₹ 5.50 per KWh P 5) a) state and explain Joule's law of heating. (b) A stesistance of 40-2 and one of 60.2 are arranged in series across 220V Supply. Find the heat produced by this combination of presistances in half a minute. (6) What is a salenoid? Dozaw a sketch to show the magnetic field partiern produced by a current-carrying solonoid (Dis state and explain maxwell's right-hand -thumb rule. (ii) state Flaming's left - hand rule. ( What is an electric motor? with the help of a labelled diagram, describe the working of a simple electric motor.

abwhat is a fuel? Give 5 examples of fuels. (b) What are the characteristics of an Ideal ful? da what is biogas? Name the major component of biogas. What are the raw material used for making blogas? (c) Describe the construction and working of a biogas plant with the help of a diagram. write any two uses of biogas. (e) Write any two advantages of using biogas.

CHEMISTRY Answer the following questions:-Q1. Give two characteristics of the chemical reaction which occur on adding potanium idide Solution to the lead nitrate Solution. Q2 Give one example each of a chemical reaction characterised by-Evolution of gas Formation of a precipitate Change in temperature Q3 when a green iron salt is heated strongly its calour finally changes to brown and de odown of burning sulphus is given out a Name the iron Salt (b) Nome the type of reaction that takes place during the heating of iron salt. Qu. what happens when an acid reacts with 9 metal hydrogen carbonate ? write equation of the reaction involved. Qs(a) why do acids not show acidic behaviour in the absence of water? (b) why does an aqueous solution of an acid Conduct electricity ?

what happens when Zinc granules are heated with suclium hydroxide selution? write equation to the reaction which take place. on Describe how washing soda is produced starting from sochium chloride? write equations of all the reactions involved. Q8 what is meant by saying that the metals are malleable and ductile ? Explain with examples. Qa Explain Calcination and masting by giving one example. Qual Name two metals which are found in nature mainly in the free state. (b) Define the term is Mineral iii) are (iii) Gargue (c) write reactivity series.

# BIOLOGY

1- To make a working project related to covid 19 by using waste material.

2 - Write at least 10 question answer from ch 1 that is Life processes.

Ch 2) That is control and co-ordination.

Ch3) That is how do organism reproduce.

## Work out

Students will take two bowls and hang them in the balcony of their house. Everyday.

They need to fill them with grains and water respectively to feed the birds.

Note : This activity will help the students to connect to the nature and they will develop a sense of compassion. Visual and Performing Arts



\*\*\*DP\*\*\*