

**Shriram School, Mawana**  
**Summer Holiday Home-Work 2021-22**  
**Class-X B**  
**Subject-Social Science**

#Project based on any of the following topics from disaster management.

- a. Tsunami
- b. Safer construction practices
- c. Communication facilities for disaster management

# Art Integrated Project on Arunachal Pradesh and Meghalaya about their general information, geographical information, people, festival, dresses, food, folk culture, famous things

**Note-** Both the Projects should be done using A4 size sheets and in 7-10 pages each; Use pictures, graphics, diagrams, maps, data. One page each for certificate, Acknowledgement, Content, and introduction and rest of the pages for description.

# Lab manual assignments of the chapters covered; Geog. (Ch-1), History (Ch-1), Eco (Ch-1)

# Make mind maps based on the chapter-1 in history and Geography in the respective subject registers.

# Completion and Learning of question-answers of the chapters covered (First chapter of all sst subjects)

**Note-** All the tasks must be submitted within first week of July positively.

**Sub. Teacher- Dipankar Dutta**

## **ग्रीष्मकालीन अवकाश गृहकार्य ( 2021 -22)**

**कक्षा -10 , विषय- हिंदी**

**प्रश्न( क)- निम्नलिखित प्रश्नों के उत्तर याद करके लिखिए ।**

- 1)-शहर के मुख्य चौराहे पर जो मूर्ति लगी थी ।उसकी ऊंचाई कितनी थी?
- 2)- मूर्ति में किस चीज की कमी स्पष्ट रूप से दिखाई देती थी ?
- 3)-हालदार साहब किस बात से दुखी हो गए थे?
- 4)- मूर्ति लोगों में राष्ट्रप्रेम की भावना जगाने में सक्षम थी ,कैसे ?
- 5)-कैप्टन कौन था ?
- 6)-लेखक द्वारा वर्णित कस्बे का चित्रण कीजिए ।

- 7)-हालदार साहब के लिए कौन सा कौतुहल दूरदमनीय हो उठा जिससे वे पान वाले से पूछे बिना नहीं रह सके ?
- 8)-उद्धव के व्यवहार की तुलना किससे की गई है और क्यों ?
- 9)-गोपियाँ हारिल की लकरी किसे कहती हैं ?
- 10)-गोपियाँ योग को किसके समान बताती हैं ?
- 11)-परशुराम किसलिए क्रोधित थे
- 12)-लक्ष्मण के कुल में किन-किन पर वीरता नहीं दिखाई जाती?
- 13)-परशुराम ने राम की विनय पूर्वक बातों का क्या उत्तर दिया और क्यों ?
- 14)-परशुराम के गुरु कौन थे ? वे गुरु ऋण किस प्रकार उतारना चाहते थे ?
- 15)-लेखक की माता बच्चे को किस युक्ति से खाना खिलाती थी?
- 16)- बच्चों द्वारा की गई कौन सी शरारत उन्हें महंगी पड़ी ?

### **प्रश्न (ख)-रचना की दृष्टि से निम्नलिखित वाक्यों के भेद लिखिए ।**

- 1-माता से केवल दूध पीने का नाता था ।
- 2-यहाँ पहले जंगल था परंतु अब घनी बस्ती है ।
- 3-जो कल मेरे घर आया था वह मेरा अभिन्न मित्र है ।
- 4-सुषमा पढ़ रही है इसलिए शोर मत करो ।

### **प्रश्न (ग)- रेखांकित उपवाक्य के भेद लिखिए ।**

- 1-माता जी ने कहा था कि वे कल खाना नहीं बनाएंगी ।
- 2-वह किताब फट गई जिसे आपने दिया था ।
- 3-हम लोग मंदिर तब पहुंचे जब कपाट बंद हो गए थे।
- 4- उसे पता है कि अब उसकी नौकरी नहीं लगेगी ।
- 5- वह वहाँ चला गया जहाँ कोई नहीं जा सकता ।

### **प्रश्न (घ)-निम्नलिखित वाक्यों को दिए गए संकेत बिंदु के आधार पर परिवर्तित कीजिए ।**

- 1-सूरज ढलने पर अंधेरा हो गया ।(संयुक्त वाक्य में )

- 2-मेहनत करने वालों को ही नौकरी मिलेगी।( मिश्र वाक्य में)
- 3- वह बीमार है अतः बहुत दुखी है ।(मिश्र वाक्य में)
- 4- मेरे हाथ में जो घड़ी है वह बहुत पुरानी है ।(संयुक्त वाक्य में)
- 5- नेताजी ने बातें की और लोगों को गुस्सा आ गया।( सरल वाक्य में )
- 6-मेरे दाँत में दर्द है अतः मैं बोल नहीं सकता ।(सरल वाक्य में)

प्रश्न (ड)-स्वच्छ भारत अभियान में सहयोग करने के लिए मित्र को समझाते हुए पत्र लिखिए ।

प्रश्न( च)-बरसात के दिनों में जलभराव से होने वाली घटनाओं को दूर करने के लिए नगर निगम अधिकारी को एक पत्र लिखिए।

नोट -उपर्युक्त प्रश्नों के उत्तर याद करके रिवीजन रजिस्टर में लिखिए।

**SHRIRAM SCHOOL, MAWANA**  
**CHEMISTRY HOLIDAY HOMEWORK (2021-2022)**  
**CLASS-X**  
**Worksheet -1**

**General instructions :**

- **Do your work neatly.**
- **Holiday homework can be done in fair register .**

**Q.1 Very Short Answer Questions.**

**a) Why is hydrogen peroxide kept in coloured bottles?**

- b) Give one example of a combination reaction which is also exothermic.***
- c) Can a double displacement reaction take place when the products are highly soluble or highly ionised?***
- d) What is wrong with the following equation ?***  
***Mg+O----- →MgO***  
***Identify the mistake and balance the equation.***
- e) What is the colour of copper sulphate crystals before heating and after heating?***

### ***Q. 2 Short Answer Questions.***

- a) What is an oxidation reaction? Give an example of oxidation reaction. Is oxidation an exothermic or an endothermic reaction?***
- b) A solution of potassium Chloride when mixed with silver nitrate solution, an insoluble white substance is formed. Write the chemical reaction involved and also mention the type of the chemical reaction.***
- c) A copper coin was kept dipped in silver nitrate solution for a few hours/days. What will happen***

***to the copper coin? What will happen to the colour of the solution?***

- d) A substance X, which is an oxide of a group 2 element, is used intensively in the cement industry. This element is present in bones also. On treatment with water it forms a solution which turns red litmus blue. Identify X and also write the chemical reactions involved.***
- e) Justify with the help of an example that displacement reaction is also a redox reaction.***

## **Worksheet-2**

***Q. 1 Write the balanced chemical equations for the following reactions.***

- (i) Sodium carbonate on reaction with hydrochloric acid in equal molar concentrations gives sodium chloride or and sodium hydrogen carbonate***
- (ii) Nitrogen gas is treated with hydrogen gas in the presence of a catalyst at 773K to form ammonia gas***
- (iii) Sodium hydroxide solution is treated with acetic acid to form sodium acetate and water***

- (iv) Ethanol is warmed with ethanoic acid to form ethyl acetate in the presence of concentrated  $H_2SO_4$**
- (v) Ethene is burnt in the presence of oxygen to form carbon dioxide, water and releases heat and light.**

## **Q. 2 Short Answer Questions.**

- (i) Design an activity to demonstrate the decomposition reaction of lead nitrate.**
- (ii) Give the characteristic test for the following gases:  
a) Carbon dioxide b) oxygen c) hydrogen**
- (iii) Define corrosion. Under what conditions does corrosion take place?**
- (iv) What do you mean by precipitation reactions? Explain giving examples.**
- (v) A shiny brown coloured element X on heating in air becomes black in colour. Name the**

***element 'X' and the black coloured compound formed.***

***Subject Teacher :Mrs Alpna Plawat***

**SHRIRAM SCHOOL, MAWANA**

**SUBJECT -BIOLOGY**

**CLASS -X**

**Assignment -1**

**Q1. Answer the following questions in short:**

1. Which part of the body secretes bile?
2. What is the function of pseudopodia?
3. Where is the digested food absorbed into blood in human body?
4. How many salivary glands are present in the mouth?
5. Give one example of parasitic nutrition.

**Q2. Answer the following questions:**

1. What is phagocytosis? Name the animal who obtain its food by this method.
2. Write three step of photosynthesis.
3. What is stomata? Where are they found?
4. .Draw a labelled diagram of alimentary canal of human being.
5. Explain the process of digestion in amoeba with the help of diagram.

**SHRIRAM SCHOOL, MAWANA**

SUBJECT -BIOLOGY

CLASS - X

Assignment -2

**Q1. Fill in the blanks:**

1. \_\_\_ in the lungs provide a very large surface area for gaseous exchange.

2.The \_\_\_\_\_ is a tube which is commonly known as wind pipe.

**Q2. Write true or false for the following statements:**

1.Fish and earthworm exchange gases during respiration in the same way.

2. The process of releasing energy from food is called respiration.

3. Exhaled air contained less amount of carbon dioxide.

**Q3. Answer the following questions:**

1. Draw a labelled diagram of human respiratory system.
2. Explain the type of respiration with an example in which more energy is released.
3. Differentiate between respiration and breathing. (3 points)
- 4.What are the ways of glucose break down? Explain.
5. Explain the mechanisms of respiration.

**SUBJECT TEACHER -SARITA TYAGI**

**SHRIRAM SCHOOL, MAWANA**  
**PHYSICS HOLIDAY HOMEWORK (2021-2022)**  
**CLASS-X**  
**Worksheet -1**

**General instructions :**

- \* Do your work neatly.**
- \* Holiday homework can be done in fair register .**



### **Q.1 Very Short Answer Questions.**

- f) Name the device that helps to maintain a potential difference across a conductor .***
- g)How much energy is given to one coulomb of charge passing through a six V battery?***
- h)Draw the symbol of variable register.***
- i) Define unit of current.***
- j) Give an example of best conductor .***

### **Q. 2 Short Answer Questions.**

- a) Calculate the number of electrons constituting one column of charge.***
- f) On what factors does the resistance of the conductor depends.***
- g)How is the voltmeter connected insert in the circuit to measure the potential difference between two points?***
- h)When is 12 Volt batteries connected across an unknown resistor there is a current of 2.5 milliampere in the circuit. Find the value of the resistance of the resistance of the register.***

- i) A wire is cut into 2 equal pieces .what is the value of resistance of each piece of wire?***

## **Worksheet-2**

### **Q.1 Very short under type question**

- a) Why is the tungsten used almost exclusively for filament of electric lamps?***
- b) How does the resistance of a wire vary with its area of cross section?***
- c) Draw the symbol of battery.***
- d) Why are copper and aluminum wires usually employed for electricity transmission?***
- e) Name the charge responsible for the conduction in a conductor***

### **Q. 2 Short Answer Questions.**

- a)An electric iron draws a current of 0.6 ampere when the voltage is 100 Volt calculate the amount of electric charge flowing through it in one hour.***
- b)A lamp draws the current of 0.5 ampere when it is connected to a 60 V source . what is the resistance of the lamp?***

- c) A resistance of 1000 ohm has a current of 0.25 A throughout it when it is connected to the terminals of a battery. what is the potential difference across the ends of a resistor?
- d) Explain ohms law and verified it with the help of graph.
- e) Define electric potential and potential difference.

***Subject Teacher : Dr Sunil Kumar Agrawal***

SHRIRAM SCHOOL, MAWANA

SUBJECT:MATHEMATICS

CLASS-X

HOLIDAY HOME WORK (2021-22)

GENERAL INSTRUCTIONS:

- WORK SHOULD BE NEAT AND CLEAN.
- WORK SHOULD BE DONE IN FAIR NOTEBOOK OR ANY OTHER NOTEBOOK.

## WORKSHEET-I

AnswerThe Following Questions:

 $(1 \times 5 = 5)$ 

1. Given that  $\text{LCM}(91, 26) = 182$ , then  $\text{HCF}(91, 26)$  is:

- (a)13 (b)26 (c)7 (d)9

2.The decimal expansion of  $\pi$  is:

- (a)terminating (b)non-terminating and non-recurring  
(c)non-terminating and recurring (d)doesn't exist

3. Pairs of natural numbers whose least common multiple is 78 and the greatest common divisor is 13 are:

- (a) 58 and 13 or 16 and 29
- (b) 68 and 23 or 36 and 49
- (c) 18 and 73 or 56 and 93
- (d) 78 and 13 or 26 and 39

4. What will be the solution of these equations  $ax+by=a-b$ ,  $bx-ay=a+b$

- (a)  $x=1, y=2$  (b)  $x=2, y=-1$

(c)  $x=-2, y=-2$

(d)  $x=1, y=-1$

5. The sum of two digits and the number formed by interchanging its digit is 110. If ten is subtracted from the first number, the new number is 4 more than 5 times of the sum of the digits in the first number. Find the first number.

(a)46

(b)48

(c) 64

(d)84

Answer the following questions :

(3×5=15)

6.The sum of two digits and the number formed by interchanging its digit is 110. If ten is subtracted from the first number, the new number is 4 more than 5 times of the sum of the digits in the first number. Find the first number.

7. Rosy can row downstream 20km in 2 hours, and the upstream 4km in 2 hours. What will be the speed of rowing in still water?

8.Show that 2 is an irrational number.

9.Show that one and only one of  $n$ ,  $n + 2$  and  $n + 4$  is divisible by 3.

10.Using Euclid's division algorithm, find the HCF of 56, 96 and 404.

## WORKSHEET-II

Answer The Following Questions:

(1×5=5)

1.Graph of a quadratic polynomial is a

(a) straight line

(b) circle

(c) parabola

(d) ellipse

2.If  $x=a, y=b$  is the solution of the pair of equation  $x-y=2$  and  $x+y=4$  then what will be value of  $a$  and  $b$

(a)2,1

(b)3,1

(c)4,6

(d)1,2

3.If graph of a polynomial does not intersects the x-axis but intersects y-axis in one point, then no. of zeroes of the polynomial is equal to

(a)0

(b)1

(c)0 or 1

(d)none of these

4.Five years ago, A was thrice as old as B and ten years later, A shall be twice as old as B. What is the present age of A.

(a)20

(b)50

(c)60

(d)40

5.A quadratic polynomial whose one zero is 6 and sum of the zeroes is 0, is

(a) $x^2 - 6x + 2$

(b) $x^2 - 36$

(c) $x^2 - 6$

(d) $x^2 - 3$

## Answer the Following Questions:

$(3 \times 5 = 15)$

6. Find the zeroes of the quadratic polynomial  $5x^2 - 4 - 8x$  and verify the relationship between the zeroes and the coefficient of the polynomial.

7. Using division algorithm, find the quotient and remainder on dividing  $f(x)$  by  $g(x)$ , where  $f(x) = 6x^3 + 13x^2 + x - 2$  and  $g(x) = 2x + 1$

8. 8 girls and 12 boys can finish work in 10 days while 6 girls and 8 boys can finish it in 14 days. Find the time taken by the one girl alone that by one boy alone to finish the work.

9. For what value of  $k$  will the following equations have infinitely many solutions?

$2x - 3y = 7,$

$(k+1)x + (1-2k)y = 5k - 4$

10. Solve the following pair of equations graphically.

$x + 3y = 6,$

$2x - 3y = 12.$

Also find the area of the triangle formed by the lines representing the given equations with y-axis.

**Shriram School Mawana**  
**Holiday Homework**  
**Class- X**  
**Sub: - English**  
**Worksheet- 1**  
**(Writing skills & Grammar)**

**Ques. 1. Develop a story based on the input given below. Also give a suitable title to your story.**

**Hints:-** Mrs Sharma - my neighbour - alone in house - had lunch - watching TV - doorbell rang - opened door - a suspicious man .....

**Ques.2. Fill in the blanks with the correct form of verbs given in the brackets.**

1. Water ..... on heating. (evaporate)
2. Shantanu ..... all the chocolates. (eat)
3. Farmers ..... the fields. (plough)
4. If I ..... I would not repeated that mistake. (be)
5. Stars ..... in the sky at night. (twinkle)

**Ques. 3. Edit the paragraph given below and write the incorrect and correct words in front of each line. There's a mistake in every line.**

According to tradition Lord Buddha sit a. ...  
in meditation in the Bo tree at Bodh b. ...  
Gaya. Unfortunately an original tree c. ...  
has disappeared and was replace d. ...  
through a successor— The Peepal tree. e. ...

**Shriram School Mawana**  
**Holiday Homework**  
**Class- X**  
**Sub:-English**  
**Worksheet- 2**  
**(Literature)**

**Ques. 1. Read the extract given below and answer the questions that follow.**

*'Has given my heart  
A change of mood  
And saved some part  
Of a day I had rued.'*

1. Why did the poet's mood change?
2. How did the poet feel in the end?
3. Why did the poet rue earlier?
4. Name the poem and the poet.

**Ques. 2. Read the lines given below and answer the questions that follow. 1x4=4**

*"A plague of locusts would have left more than this. The hail has left nothing. This year we will have no corn".*

1. Who is the speaker of the above lines?
2. What made the speaker so dejected and depressed?
3. With whom did he share his sorrow?
4. Name the chapter and its author.

**Ques. 3. Answer the following questions in about 40 to 50 words.**

1. Where was Lencho's house situated?
2. Did Mandela think the oppressor is free? Why/ why not?

3. Why was the doctor tempted to keep Tricki on as a permanent guest?
4. Why did Hari Singh justify himself to rob Anil?
5. Where did the young Seagull sit alone? What did he watch from there?
6. Why did Lencho's happiness change into deep concern?

## **Holiday Home work Computer**

1. Make a PPT on E-Learning.
2. Learn the Q/Ans and Book Work

## **\*Art Integrated Project\***

**\*Topic\*- \_Role of vaccination in India during the Pandemic of COVID-19\_**

**Make project file in Science**

**Write a report on physics relating the affected population in COVID - 19 in terms of the density ratio and another five factors.**

**Write a report on Chemistry behind Preventing the Spreading of COVID 19 .**

**Write the name of disease, causative organism, causes & symptoms of 10 such diseases which can be cured by vaccination.**

**Art Integrated Project-**

**Activity in social science:**

**Socio-economic impact of the covid-19**

**हिंदी में एक अनुच्छेद लिखना है**

**\*MATHS ACTIVITY\***

**Statistical analysis of number of person got 1st and 2nd dose of vaccine in India till April 10 May using Pie Graph , Histogram and Bar Graph.**

**\*Also discuss its type , effect and impact on Corona Virus in this Pandemic of COVID-19 .\***

**Make a Ppt on Role of vaccination in India during the Pandemic of COVID-19\_.**

**Activity English**



**Write an article on Role of vaccination in India during the Pandemic of Covid- 19 in about 180 words.**