

## **HOLIDAY HOMEWORK**

### **Class X**

#### **ENGLISH -1 (In A4 Size Sheet)**

- Q1. The story 'Two Gentlemen of Verona' is a story of two boys only 12 and 13 years old respectively. But they were really "TWO GENTLEMEN" They possessed many qualities like indomitable courage and fortitude. What does the story convey and teach us?
- Q2. Read the novel 'Story of My Life'.

#### **ENGLISH -2(In A4 Size Sheet)**

- Q1. Write an e-mail to your overstressed sister who is preparing for her class XII exams suggesting her to join a laughter club to combat her anxiety.
- Q2. Select any two of the herbal plant suggested below through a series of charts or P.P.T (Refer to question no E.6 L-1)

#### **Social Studies (Economics) (Project Work)**

- Q.1 Write & explain five points of Development and Growth of your family or family members. Write all the parameters of your analysis.
- Q.2 Collect any recent ten ratios of our country.

#### **Biology**

1. Draw the diagram of HUMAN DIGESTIVE SYSTEM OR HUMAN RESPIRATORY SYSTEM or HUMAN CIRCULATORY SYSTEM on chart paper and label it.
2. Write 5 points of differences between following in tabular form in your note book:-
  - (a) Xylem and phloem tissue.
  - (b) Artery and vein.
  - (c) Respiration and photosynthesis.
  - (d) Blood and lymph.
  - (e) Aerobic and anaerobic respiration.
  - (f) Inhalation and Exhalation.
3. Revise chapter-6 from NCERT OR any other reference book.

#### **SUBJECT: PHYSICS CHAPTER : ELECTRICITY**

1. When does the current flow in an electric circuit?
2. What is the difference between resistance and resistor?

3. What are the factors on which the resistance of conductor depends? Give the corresponding relation.
4. Calculate the resistance of a 2m long nichrome wire of radius 0.321mm. Resistivity of nichrome is  $15 \times 10^{-6} \Omega \text{ m}$ . If the potential difference of 10v is applied across this wire, what will be the current in the wire?
5. Derive an expression for the equivalent resistance of three resistances connected in series?
6. Derive an expression for the combination of three resistances connected in parallel.
7. Express Ohm's law both by a mathematical formula and by a graph.
8. Derive an expression for the heat produced in a resistor R when a voltage drop across it is V. Hence state Joule's law of heating.
9. Describe some practical applications of heating effect of the electric current.
10. An electrical heater is used on a 220v supply and takes a current of 5A
  1. What is its power
  2. What is the cost of using the heater for 50 hours if 1 KWh costs Rs. 1.50?
11. A house hold uses the following electric appliances :
  - i) Refrigerator of rating 400 W for 10 hours each day.
  - ii) Two electric fans of rating 80 W each for 12 hours each day.
  - iii) Six electric tubes of rating 18 W each for 6 hours each day.
 Calculate the electricity bill of the house hold for the month of June if the cost per unit of electric energy is Rs. 3
12. Distinguish between kilowatt and kilowatt hour.
13. Define the term electric energy. Write an expression of the electric energy consumed in an electric circuit.
14. Define the term electric power. Write an expression for it.
15. Define kilowatt hour. How many joules are equal to 1 KWh.
16. Two identical resistors, each of resistance 10 Ohms are connected
  - i) in series    ii) in parallel, in turns to a battery of 6 volts. Calculate the ratio of power consumed in the combination of resistors in two cases.
17. The V-I graph is a straight line that passes through the the origin of graph . What do you conclude from this observation?

**Note – Write Answer of given question in your notebook**

## **Chemistry**

1. Why do gold and Platinum not corrode in moist air?
2. When ice is exposed to air, it melts to form water and when hydrogen is burnt in air, it forms water. How do these changes differ?
3. Write the name and chemical formula of the following substances:
  - a) Blue Vitriol
  - b) Green Vitriol
  - c) White Vitriol
  - d) Oil of Vitriol
4. What is rust chemically?
5. Why is photosynthesis considered as an Endothermic reaction?
6. Explain physical and chemical change with example.
7. What are Alkalies? Give example.
8. What do you mean by Water of Crystallisation? Mention an activity to show that some salts contain crystalline water.
9. On heating blue coloured powder of Cu(II) Nitrate in a boiling tube, Copper oxide (black) , Oxygen gas and a brown gas 'X' is formed.
  - a) Write a balanced chemical equation for the following reaction.
  - b) Identify the brown gas 'X' evolved.
  - c) Identify the type of reaction.
  - d) What could be the  $\text{pH}$  range of aqueous solution of the gas 'X'.
10. What is Efflorescence? Name one compound which shows Efflorescence.
11. What do you mean by dead burnt Plaster? Explain.
12. Dry HCl gas does not turn blue litmus red whereas HCl does. Give reason.

### **Revise Chapter – 1**

**Note :- Write answer of given questions in your Note Book**

## **Mathematics**

1. Repeat Chapter No. 2, 4 & 8 in practice note book.
2. Complete R.D. Sharma of these chapters.

## हिन्दी

1. किसी एक विषय पर निबन्ध लिखिए (शब्द सीमा 200–250)

1. कामकाजी नारियों की समस्याएँ

1. भूमिका
2. दोहरी भूमिका
3. तनाव और व्यस्तता
4. परिवार के लोगो का दायित्व सहयोग प्रदान करना
5. उपसंहार

2. लोकतांत्रिक भारत में युवकों की भूमिका

- भूमिका
- स्वस्थ और शिक्षित युवक
- देश के विकास में युवाओ का योगदान
- प्रगतिशील युवा – प्रगतिशील देश
- शासकीय सहयोग
- नैतिकता
- राष्ट्र निर्माण
- उपसंहार

3. पर्यावरण असंतुलन

- बढ़ती जनसंख्या
- विकास की भूख
- घटते पेड बढ़ती इमारतें

2. आपके मोहल्ले में कुछ लडकों द्वारा आए दिन कुछ अप्रिय वारदातें की जा रही है। उनकी रोकथाम के लिए क्षेत्र के माननीय थानाध्यक्ष महोदय को गशत बढ़ाने हेतु प्रार्थना पत्र लिखिए ।

3. अपने पिताजी को पत्र लिखकर उन्हें प्रथम संकलित परीक्षा के परिणाम की जानकारी दीजिए तथा उन्हें आश्वस्त कीजिए कि आप आगामी परीक्षा के परिणाम और अधिक अंक प्राप्त करेंगे ।

4. किसी एक विषय पर विज्ञापन लेखन कीजिए (शब्द सीमा 25– 50)  
किसी कार की बिक्री को बढ़ाने के लिए एक शानदार विज्ञापन बनाइए ।

अथवा

दहेज लेना और देना अपराध है इस संदेश को प्रसारित करने के लिए एक विज्ञापन बनाइए ।

समस्त लिखित कार्य हिन्दी कॉपी में कीजिए ।