

## Assignment - 1 (2024-25)

Class : X

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### ENGLISH

1. Various pictures of faith, hope and Mother Nature are visible in the chapters 'A Letter to God' and 'Dust of Snow'. With reference to the chapters prepare a picture album on 'Nature Photography' with write ups talking about the photographs. It has to be done in a scrapbook.
2. 'Triumph of Surgery' tells us that 'Excess of Everything is bad'. Write a story depicting the same theme. The story may be related to real life situations (if any). To be done in the English copy.

### HINDI

1. गोपियों ने यह क्यों कहा कि 'हरि अब राजनीति पढ़ि आए'? क्या आपको गोपियों के इस कथन का विस्तार समकालीन राजनीति में नजर आता है? उदाहरण सहित अपने विचार 100 से 120 शब्दों में चार्ट पेपर में प्रस्तुत करें।

विशेष ध्यान देने योग्य बातें-

- i. परियोजना कार्य साफ -सुथरा, स्वरचित एवं सुलेख में प्रस्तुत करें।
  - ii. चार्ट पेपर का रंग और लिखने के लिए प्रयुक्त स्याही का रंग एक जैसा नहीं हो।
2. उद्धव और गोपियों के बीच हुए संवाद को कम से कम 10-12 वाक्यों में हिंदी में प्रस्तुत करें। (असाइनमेंट कॉपी में)

क्रमांक 1-10 - प्रथम पद

11-20- द्वितीय पद

21-30- तृतीय पद

31- शेष सभी - चतुर्थ पद

3. 'नेताजी का चश्मा' पाठ में कैप्टन फेरी लगाता था। फेरी वाले हमारे दिन- प्रतिदिन की बहुत सी जरूरतों को आसान बना देते हैं। फेरी वालों के योगदान व समस्याओं पर एक संपादकीय लेख तैयार कीजिए।

(सर्वश्रेष्ठ प्रस्तुति को विद्यालय पत्रिका में शामिल किया जाएगा।)

### MATHEMATICS

1. Generate temperature chart of Ranchi day wise for minimum 15 days and draw a frequency polygon by taking temperature on y-axis and date on x-axis.

(Use graph paper to show frequency polygon)

2. Conduct survey of 2 - 3 houses of your neighborhood and generate electric consumption chart and draw a bar graph day wise for at least 10 days (on daily basis).

\* Where X-axis represents date and

Y - axis represents units.

\* Write at least 5 ways to reduce electric consumption.

\* Write adverse effects of misuse of electricity.

Sl. No.	Date	Beginning unit (7am)	End unit (7am next day)	Consumption	Bill @ ₹6/ unit

\* Who supplies electricity in Jharkhand?

\* How many thermal power plants are there in Jharkhand?

## SCIENCE

### Physics (ALL based)

Prepare a **3-D model** of **Human eye** with a supporting write-up including following points.

- Structure and functioning,
- power of accommodation,
- defects like myopia, hypermetropia, and presbyopia and
- corrective measures of the defects.

### Chemistry

Balance the following equation and show it through a Button model.

1.  $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
2.  $\text{SiCl}_4 + \text{H}_2\text{O} \rightarrow \text{H}_4\text{SiO}_4 + \text{HCl}$
3.  $\text{Al} + \text{HCl} \rightarrow \text{AlCl}_3 + \text{H}_2$
4.  $\text{Na}_2\text{CO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$
5.  $\text{C}_7\text{H}_6\text{O}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
6.  $\text{Fe}_2(\text{SO}_4)_3 + \text{KOH} \rightarrow \text{K}_2\text{SO}_4 + \text{Fe}(\text{OH})_3$
7.  $\text{Ca}_3(\text{PO}_4)_2 + \text{SiO}_2 \rightarrow \text{P}_4\text{O}_{10} + \text{CaSiO}_3$
8.  $\text{KClO}_3 \rightarrow \text{KClO}_4 + \text{KCl}$
9.  $\text{Al}_2(\text{SO}_4)_3 + \text{Ca}(\text{OH})_2 \rightarrow \text{Al}(\text{OH})_3 + \text{CaSO}_4$
10.  $\text{H}_2\text{SO}_4 + \text{HI} \rightarrow \text{H}_2\text{S} + \text{I}_2 + \text{H}_2\text{O}$

## **Biology (AIL based)**

- Make a schematic model of human heart representing the different chambers and flow of blood (both oxygenated and deoxygenated blood).  
Material required: Clay, colours etc. OR by using card-board.
- Show the structure and functioning (ultra-filtration, reabsorption and secretion) of Nephron in a white chart paper with water colour or crayons.

## **SOCIAL SCIENCE**

### **History**

- i. Draw or paste pictures of the stages in the evolution of Indian flag during the national movement till the adoption of the Tricolour as the national flag.
- ii. Write a short note (about 50 words) on the only place in India where the national flag is made and the Govt. of India guidelines according to which this place makes the flag.

### **Geography**

Make a vlog/ blog on any place that you visited during the vacation, highlighting how it can develop better and faster by implementing any one/ a few/ all the SDGs.

### **Economics**

Study the economic activities in and around Ranchi. Create a gallery of pictures showing each of the three sectors of the economy- primary, secondary and tertiary. Write a brief description about these activities (about 30 words each) and reflect on the interdependence among these sectors in driving economic growth.

## **SANSKRIT**

1. किचन गार्डन बनाएँ, उसके साथ अपना फोटो खींचें एवं अपना अनुभव संस्कृत में लिखें। (कक्षा कार्य की कॉपी में करें)
2. श्रीमद्भगवद्गीता (पञ्चम अध्याय से) 1-10 श्लोक याद करें। (प्रतिदिन प्रातः 7 बजे अभ्यास करें एवं समय-सारणी बनाएँ) (For ASL)

## **ARTIFICIAL INTELLIGENCE**

- Write a quiz program in python like "KBC:
- i) Prepare 10 questions for it.
  - ii) Allot 4 options for every question.
  - iii) 1 point will be scored for the correct answer which is applicable for every question.
  - iv) Declare winners with "Congratulation" message. (Take the help of any AI app)

## **GENERAL KNOWLEDGE**

1. Write the name of all National Political parties, draw/paste their symbol and write the names of their national head also.

## LIFE SKILL

1. Use the four quadrants and classify your activities in the four quadrants. Find out which is the most used quadrant in your life.

