



## KENDRIYA VIDYALAYA CRPF PRAYAGRAJ

### Summer Break Assignments 2022-23

Class: IX विषय: हिंदी

दिए गए प्रश्नों का निर्देशानुसार उत्तर दीजिए।

प्रश्न 1. उपसर्ग किसे कहते हैं ? बताइए तथा निम्नलिखित उपसर्ग से शब्द बनाइए।

अधि, बे, परि, सु, दुर, अति, निर, प्र, सह, अव, उन, ।

प्रश्न 2. प्रत्यय किसे कहते हैं प्रत्यय का भेद बताते हुए उदाहरण भी दीजिये ।

प्रश्न 3. निम्नलिखित प्रत्यय से शब्द बनाइए ।

अक्कड़, अंत, अन, आ, आई, आक, आकू, आका, आन, आव, आवट, आलू

प्रश्न 4. विद्यालय में आयोजित वृक्षारोपण समारोह पर एक प्रतिवेदन लिखिए ।

प्रश्न 5. समास किसे कहते हैं ? समासों को समझाते हुए उदाहरण भी लिखिए ।

प्रश्न 6. दूरदर्शन के लाभ एवं हानि विषय पर एक सारगर्भित निबंध लिखिए ।

प्रश्न 7. आवेदन पत्र का प्रारूप बनाइए तथा कम्प्यूटर शिक्षक पद हेतु आवेदन पत्र लिखिए ।

### English

\*NOTE - Do in your English copy \* 📄➡

1. Week 1. DO 2 \*UNSEEN PASSAGES\* given at the end of the homework
2. Week 2 . Write 2 Stories giving suitable tittle and moral in 150 words
3. Week 3. Write a \*letter to Editor\* of a leading newspaper highlighting the problems Of collections of heaps of garbage in your locality.

Write a letter to M/s

Global Sport placing the order of following items -

- A. 10 badminton rackets

B. 10 basket balls

C. 5 nets

D. 5 football

Week 4. Revise tenses and preposition. By making sentences from each tense and also using all the prepositions taught in previous class

week 5. Attempt a \*Book Review\*

A. Introduction, title, author name

B. No. Of pages

C. Price of book

D. Name of publisher

E. Summary of story

F. Main characters

G. The character I like most

H. My impression about the book.

Write a diary entry \*weekly\* in your vacations, as the format given in class

Listen \*English News\* and read \*English newspaper\* daily .

Week 6- Write stories, articles, poems, drawings, collection of thoughts, pictures, facts, tongue twister, idioms, puzzles, sayings, etc in English, Hindi, Or Sanskrit for \*Digital School Magazine\*

### UNSEEN PASSAGE

There will hardly be anyone who will be ignorant of the name of cryptocurrency. For the last few years, cryptocurrency has become very popular all over the world. Its craze in India has also increased very fast.

It's nothing but a digital currency that is based on Blockchain technology. Some popular cryptocurrencies are Bitcoin, Binance coin, Ethereum, XRP, etc.

The most important thing about this currency is that it's completely decentralized, which means that there is no control of any country over it, that's why many countries still consider it illegal, but recently India has considered it legal .

It's such a currency that doesn't exist in physical form, but with the help of it, you can buy any goods and also do investing and trading. When a transaction takes place, it's

monitored through powerful computers, which is called cryptocurrency mining in another language.

Questions –

1. What is cryptocurrency?
2. Where can cryptocurrency be used?
3. What is Cryptocurrency mining?
4. Write a synonym for the word 'Decentralized'.
5. What is the meaning of 'cryptocurrency is decentralized'?

PASSAGE 2

Trading is a word that is used a lot in the stock market. In general language, trading means buying and selling things. In other words, it's about making a profit by buying and selling things.

There are four types of trading in the stock market and these are scalping trading, intraday trading, swing trading, and traditional trading.

The riskiest trading is scalping trading and the safest is positional trading. Scalping trading is the riskiest as people trade in this for only a few minutes or seconds.

Often people look confused about trading and investment. Actually, trading means buying shares of any company for a short period of time whereas when someone buys shares for a long time, it's called investment.

Those who trade are called traders and those who invest are called investors.

Questions –

1. What is trading generally?
2. What are the types of trading in the stock market
3. Explain trading and investing individually.
4. Which is the riskiest trading?
5. Can an investor be called a trader.

## Math

### CHAPTER NUMBER SYSTEM

1. If  $x = 3 - \sqrt{8}$ , find the value of (i)  $x^3 + \frac{1}{x^3}$  (ii)  $x^2 + \frac{1}{x^2}$
2. Find two rational number and two irrational number between  $5\sqrt{2}$  and  $6\sqrt{3}$ .
3. Visualize  $5.\overline{78}$  on the number line, using successive magnification up to 4 decimal places.

4. If  $\frac{\sqrt{11}-\sqrt{7}}{\sqrt{11}+\sqrt{7}} = a - b\sqrt{77}$ , find the value of a and b.
5. Represent  $\sqrt{10}$  on number line.
6. Show that 1.6363636363..... can be expressed in the form of  $\frac{p}{q}$ , where p and q are integers and  $q \neq 0$ .
7. Evaluate (i)  $\sqrt[8]{\frac{6561}{65536}}$  (ii)  $\frac{\sqrt{32} \cdot \sqrt{48}}{\sqrt{8} \cdot \sqrt{12}}$
8. If  $x = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$  and  $y = \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$ , find  $x^2 + y^2$ .
9. If  $a = \frac{3 + \sqrt{5}}{2}$ , find  $a^3 - \frac{1}{a^3}$
10. If  $a^x = b^y = c^z$  and  $b^2 = ac$ , prove that  $y = \frac{2zx}{(z+x)}$ .

### CHAPTER POLYNOMIALS

1. Factorize the following:  $9x^2 + 6x + 1 - 25y^2$ .
2. Find the value of a if  $x + 6$  is a factor of  $x^3 + 3x^2 + 4x + a$ .
3. Find the value of  $x^3 + y^3 + 15xy - 125$  if  $x + y = 5$ .
4. Factorise :  
 (i)  $2x^3 - 3x^2 - 17x + 30$  (iii)  $x^3 + x^2 - 4x - 4$   
 (ii)  $x^3 - 6x^2 + 11x - 6$  (iv)  $3x^3 - x^2 - 3x + 1$
5. Expand (i)  $(4a - 2b - 3c)^2$  (ii)  $(3a - 5b - c)^2$
6. Without finding the cubes, factorise  $(2x - 5y)^3 + (5y - 3z)^3 + (3z - 2x)^3$
7. If the polynomials  $2x^3 + ax^2 + 3x - 5$  and  $x^3 + x^2 - 2x + a$  leave the same remainder when divided by  $(x - 2)$ , find the value of a. Also, find the remainder in each case.
8. Factorise (i)  $6x^2 + 17x + 5$  (ii)  $y^2 - 5y + 6$
9. If  $a + b + c = 9$  and  $ab + bc + ca = 26$ , find  $a^2 + b^2 + c^2$ .
10. Find the following product :  $(2x - y + 3z)(4x^2 + y^2 + 9z^2 + 2xy + 3yz - 6xz)$

### SCIENCE

1. What are cell organelles? Name them.
2. What is membrane biogenesis?
3. Name the type of plastids. Where they are found in plant cells?
4. Why is mitochondria called the powerhouse of the cell?
5. Why are lysosomes called the suicidal bags of the cell?

6. What is osmoregulation? How it is done in unicellular organisms?
7. Why is cell called structural and functional unit of life?
8. Why doctor advises gargles with salt solution during throat infection?
9. How does amoeba obtain its food? Name the process?
10. Draw the diagram of plant cell and animal cell. (Coloured and labelled)
11. Why do the doctor advises to put strips of wet cloth on forehead of a person having high fever?
12. The melting point of solids x,y and z are 298K, 314 K and 398 K respectively. Arrange them in the order of inter particle force of attraction.
13. Why do we feel comfortable under a fan when we are perspiring?
14. Why do solids have regular geometrical shape?
15. How does evaporation differ from cooling?
16. Describe an activity to determine the boiling point of water.
17. Water as ice has cooling effect, whereas water as steam may cause severe burn. Explain.
18. Why do we see water droplets on outer surface of glass containing ice-cold water?
19. When 50 gram of sugar is dissolved in 100 ml of water, there is no increase in volume. Why?
20. Why do wet clothes dry quickly in sun than in shade?
21. Prepare a **Working model for Science Exhibition (Mandatory for all)**

### Themes

- I. Eco System for Sustainable Living
- II. Appropriate Technology for Sustainable Living
- III. Social Innovation for Sustainable Living
- IV. Design, Development and Modelling for Sustainable Living
- V. Traditional Knowledge System (TKS) for Sustainable Living

**\*Model can be prepared individually or in group (maximum 5 students)**

**\*Students can chose one or more themes**

## SOCIAL SCIENCE

ALL WORK HAS TO BE DONE IN SEPARATE NOTEBOOK

1. WITH THE HELP OF ATLAS COMPLETE ALL MAP WORK GIVEN IN SYLLABUS OF CLASS 9 OF CBSE (2022-23) (HISTORY AND GEOGRAPHY)
2. MAKE A PROJECT REPORT ON ARUNACHAL PRADESH INCLUDING CUISINE,TRADITION, SPORTS,CULTURE,FOOD HABBIT,MONUMENTS etc. WITH PICTURES.
3. COLLECTION OF PATRIOTIC SONGS, PAINTING , SLOGAN AND NEWS USED BY THE LOCAL FREEDOM FIGHTER AND UNSUNG HEROES DURING THE FREEDOM STRUGGLE OF INDIA.
4. PREPARE A SCRAP BOOK ON DANDI MARCH, NATIONAL SONG , NATIONAL ANTHEM AND MAKING OF CONSTITUTION OF INDIA .
5. Why was treasury empty when Louis XVI ascended the throne of France?
6. Name the categories which constituted the French society.
7. Who was Robespierre? Describe any four steps taken by him to bring equality in French society.

## **ART**

DRESS DESIGN OF ARUNACHAL PRADESH ( ON CHART PAPER)

## **Work Education**

1. Name the metal which are used to make fuse?
2. Write the full form of ELCB and MCB?
3. Draw the diagram of two pole isolator?
4. What is an electrical motor. Write its working principle .
5. Why we should not use wet slippers for handling electrical appliances.
6. Write 10 uses of electric motor in our daily life.
7. Write ten steps to save electricity.
8. Write 10 steps to save water.

## **SPORTS**

Write about health and dimensions of health education