

**Class- IX (Holiday Homework)**  
**3<sup>rd</sup> Week**

**Day – 1**

**Subject- English**

Collect information about the poet **Subramania Bharati** and write a paragraph about the poet. (Include origin, date of birth and death, education, awards or achievements, major works etc.)

**Subject- Hindi**

प्रेमचंद का जीवन परिचय लिखते हुए साहित्य में उनके योगदान का भी उल्लेख कीजिए-

**Subject – Odia**

୧. ତୁମ ଅଞ୍ଚଳରେ ଜନ୍ମଗ୍ରହଣ କରିଥିବା ବୀରପୁତ୍ର ଅବା ମହାନ ଲେଖକଗଣଙ୍କ ଏକ ତାଲିକା ପ୍ରସ୍ତୁତ କର ।

୨. ପଢ଼ିବାରୁ ମଣିଷ କି ଶିକ୍ଷା ଲାଭ କରିଥାଏ ? ପଠିତ କବିତା ଆଧାରରେ ଲେଖ ।

**Subject- Maths**

1. Write the cube from 1-10.
2. Define polynomial with five examples.
3. What is the degree of the polynomial  $7x^3 - 2x + 5$  ?
4. Identify the coefficient in  $4x^2 + 3x - 9$ .
5. What is a constant polynomial? Give two examples.
6. Write whether  $\frac{5}{x}+2$  is a polynomial or not.

**Subject- Science**

**Chem**

1. What is the primary goal of creating a “model” in science?
2. How did Meghnad Saha study stars to understand their temperature and colour?
3. Why is the speed of light denoted by ‘c’?

**Day – 2**

**Subject- English**

1. Write a descriptive paragraph in about 100-150 words on “ **Indian Culture and Tradition**”.
2. Make a sentence using each of the following words:  
Mighty, generous, sacred, golden, divine, auspicious

## Subject- Hindi

1. मित्र को परीक्षा में प्रथम स्थान प्राप्त करने पर बधाई पत्र लिखिए।
2. अपने पिता जी को पत्र लिखकर बताइए कि आपके विद्यालय में वार्षिकोत्सव किस तरह मनाया गया।

## Subject – Odia

୧. 'ଦୁଃଖ-ସୁଖ' ଭଳି ବିପରୀତ ଅର୍ଥସୂଚକ ଯୋଡ଼ିଶବ୍ଦର ପାଞ୍ଚଗୋଟି ଉଦାହରଣ ଲେଖ।
୨. ପଦ୍ମ, ଭଗବାନ, ସୂର୍ଯ୍ୟ, ଅମୃତର ତିନୋଟି ଲେଖାଏଁ ପ୍ରତିଶବ୍ଦ ଲେଖ।

## Subject- Maths

1. Write the cube from 11-20.
2. Explain different between monomial, binomial and trinomial with examples.
3. Classify  $5x^3 - 2x^2 + x$  based on degree and number of terms.
4. What is a zero polynomial? Explain with examples.
5. Why is  $x^{-2} + 5x - 3$  not a polynomial?

## Subject- Science

### Physics

Draw a velocity- time graph for an object

Uniform accelerated motion

Non-uniform accelerated motion

Rest in motion ,

## Day – 3

## Subject- English

1. Write an application to the Principal of your school asking for two days' leave for your health issue.
2. Translate the following sentences into English.
  - i) ମୁଁ ବର୍ତ୍ତମାନ ଗୋଟିଏ ଗନ୍ଧ ପତ୍ରୁଛି ।
  - ii) ମୁଁ ଚାରି ଘଣ୍ଟା ହେଲାଣି ଗୋଟିଏ ଗନ୍ଧ ପତ୍ରୁଛି ।
  - iii) ଆମ ବିଦ୍ୟାଳୟରେ ଗତ ସପ୍ତାହ ବୃକ୍ଷ ରୋପଣ କାର୍ଯ୍ୟକ୍ରମ ଆୟୋଜନ କରାଯାଇଥିଲା ।
  - iv) ମୁଁ ପ୍ରତି ରବିବାର ବଗିଚାକୁ ଯାଏ ।
  - v) ମୁଁ ମୋର ପ୍ରକଳ୍ପ କାମ କରିସାରିଛି ।

## **Subject- Hindi**

पूरक पाठ्यपुस्तक “कृतिका” “इस जल प्रलय में” पाठ का पठन कर अपनी देखी-सुनी किसी आपदा का वर्णन लगभग १००-१२० शब्दों में कीजिए

## **Subject – Odia**

୧.ଅଭିଧାନ ନିୟମ ଅନୁସାରେ ନିମ୍ନଲିଖିତ ଶବ୍ଦଗୁଡ଼ିକୁ ସଜାଇ ଲେଖ ।

ଅମର, ଅକ୍ଷୟ, ଅନୁକୃତ, ଅଶାନ୍ତି, ଅପକାର, ଅଚିହ୍ନା, ଅନଳ, ଅରବିନ୍ଦ

୨.ତୁମ ମରୁଡ଼ିଗ୍ରସ୍ତ ଅଞ୍ଚଳରେ ଜଳସେଚନର ସୁବିଧା ଯୋଗାଇ ଦେବା ସକାଶେ ଜିଲ୍ଲାପାଳଙ୍କ ନିକଟକୁ ଦରଖାସ୍ତ ।

## **Subject- Maths**

1. Write the cube from 21 to 26.
2. Find the value of  $x^2 + 2x + 1$  when  $x=3$ .
3. Check whether  $x=1$  is a zero of  $x^2 - 1$ .
4. Evaluate  $3x^3 - 2x - 7$  at  $x = -2$ .
5. Find the zero of the polynomial  $5x - 3$ .

## **Subject- Science**

### **Biology**

Draw the label diagram of a plant cell or animal cell.

Write the function of

Endoplasmic reticulum

Mitochondria

Golgi body

**Day – 4**

## **Subject- English**

1. Read the poem “Bharat Our Land” .
2. Write the poem in your copy and recite it.

## Subject- Hindi

दिए गए संकेत बिन्दुओं के आधार पर लगभग १२०-१५० शब्दों में अनुच्छेद लेखन कीजिए-  
सच्चा मित्र

### **अथवा**

विपत्ति कसौटी जे कसे ते ही साँचे मीत

संकेत बिंदु-

- मित्र की आवश्यकता क्यों
- सच्चे मित्र के गुण
- मित्र चयन में सावधानियाँ
- सच्चे मित्र कौन?

## Subject – Odia

ବନ୍ଧନୀ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଶବ୍ଦ ବାଛି ଉତ୍ତର ଲେଖ ।

୧. ନିମ୍ନଲିଖିତ କେଉଁ ପୁସ୍ତକଟି ମଧୁସୂଦନ ରାଓଙ୍କ ଦ୍ୱାରା ଲିଖିତ ହୁଅନ୍ତୁ ?  
(ଛାନ୍ଦମାଳା, କୁସୁମାଞ୍ଜଳି, ବସନ୍ତଗାଥା, ତପସ୍ୱିନୀ)

୨. ପଦ୍ମ କବିତାରେ କେଉଁ ଭାବ ରହିଛି ?

(ସୌନ୍ଦର୍ଯ୍ୟବୋଧ ସହିତ ପ୍ରକୃତି ପ୍ରେମ, ସୌନ୍ଦର୍ଯ୍ୟବୋଧ ସହିତ ରସାନୁଭୂତି, ସୌନ୍ଦର୍ଯ୍ୟବୋଧ ସହିତ ପ୍ରେମାନୁଭୂତି, ସୌନ୍ଦର୍ଯ୍ୟବୋଧ ସହିତ ଇଶ୍ୱରାନୁଭୂତି)

୩. ପଦ୍ମ ଦର୍ଶନରେ କବିଙ୍କ ହୃଦୟରେ କି ପରିବର୍ତ୍ତନ ଘଟେ ?

(ପୁଣ୍ୟ ଆନନ୍ଦମୟ, ଉଲ୍ଲାସମୟ, ଅତ୍ୟନ୍ତ ଆନନ୍ଦମୟ, ନବୀନ ଉଲ୍ଲାସମୟ )

୪. କେଉଁଟି ପଦ୍ମର ପ୍ରତିଶବ୍ଦ ହୁଅନ୍ତୁ ? (ଅରବିନ୍ଦ, ତାମରସ, ପଙ୍କଜ, ଅନିଳ)

୫. ପଦ୍ମପୁଲ ରଙ୍ଗ କ'ଣ ? (ଶ୍ୱେତ, ଲୋହିତ, ଶ୍ୱେତଲୋହିତ, ନୀଳ ଲୋହିତ)

୬. କଳ୍ପସ – ପଙ୍କ – ଏହା କି ସମାସ ? ( ରୂପକ କର୍ମଧାରୟ, ଉପମିତ କର୍ମଧାରୟ, ଉପମାନ କର୍ମଧାରୟ, ତତ୍ପୁରୁଷ)

୭. ପରମେଶ୍ୱର ସନ୍ଧିବିଚ୍ଛେଦ କଲେ କ'ଣ ହେବ ? ( ପର + ମେଶ୍ୱର, ପରମେ + ଶ୍ୱର, ପରମ + ଇଶ୍ୱର, ପରମେ + ଏଶ୍ୱର)

୮. କେଉଁଟି 'କର' ଶବ୍ଦର ଅର୍ଥକୁ ପ୍ରକାଶ କରୁନାହିଁ ? (ହାତ, ଖଜଣା, ହାତୀର ଶୁଣ୍ଠି, ସୁନା)

୯. କେଉଁଟି 'ପୁଣ୍ୟ' ଶବ୍ଦର ବିପରୀତ ଅର୍ଥକୁ ପ୍ରକାଶ କରୁଛି ? (ପାପ, ଅପୁଣ୍ୟ, ଅପବିତ୍ର, ସ୍ୱର୍ଗୀୟ)

୧୦. ଠିକ୍ ଶବ୍ଦଟି ବାଛି ? (ପିନ୍ଧୁଷ, ପୀନ୍ଧୁଷ, ପିନ୍ଧୁସ, ପୀନ୍ଧୁସ)

୧୧. ସତ୍ୟ-ଶିବ-ସୁନ୍ଦର ବୋଲି କାହାକୁ କୁହାଯାଇଛି ? (ଶିବ, ବିଷ୍ଣୁ, ବ୍ରହ୍ମା, ପରମେଶ୍ୱର)

୧୨. କବି କାହିଁକି ନିଜକୁ ମଳିନ ବୋଲି କହିଛନ୍ତି ?

(ରଙ୍ଗ କଳାଯୋଗୁଁ ଶରୀର ଅପରିଷ୍କାର ଯୋଗୁଁ ପାପପୂର୍ଣ୍ଣ ସଂସାରରେ ଜନ୍ମହୋଇଥିବା ଯୋଗୁଁ କେଉଁଟି ହୁଅନ୍ତୁ)

୧୩. ମଧୁସୂଦନ ରାଓ କେଉଁ ଧର୍ମରେ ଦୀକ୍ଷିତ ହୋଇଥିଲେ ? (ହିନ୍ଦୁ, ଖ୍ରୀଷ୍ଟିଆନ, ଇସଲାମ, ବ୍ରାହ୍ମ)

୧୪. କେଉଁଟି ଠିକ୍ ? (ପୁନ୍ୟ, ପୁନ୍ୟ, ପୁଣ୍ୟ, ପୁଣ୍ୟ)

## Subject- Maths

1. Write the cube from 27 to 35.
2. Factorize  $x^2 - 7x + 10$  and find its zeros.
3. Compare the degree of  $x^4 + 2x^2$  and  $3x^3 + 1$ .
4. Find whether  $x-2$  is a factor of  $x^2 - 4$ .
5. Break the polynomial  $x^2 + 4x + 3$  into factors.

## **Subject- Social Science**

### **Geography**

**Read the passage given below and write answer of the following questions**

The Earth's crust, the outermost solid layer of the planet, has been formed out of seven major and some minor tectonic plates. A tectonic (or lithospheric) plate is a massive, irregularly shaped slab of solid rock composed of both continental and oceanic lithosphere. Driven by convection currents in the underlying mantle, these plates glide slowly over the asthenosphere. Over millions of years, this continuous movement has changed the positions of the continents and shaped the Earth's surface through folding, faulting, and volcanic activity. Plate movements are primarily classified into three categories based on how they interact:

**Convergent Boundaries:** Plates move toward each other. When a continental and oceanic plate collide, the heavier plate is forced beneath the other in a process called subduction, often forming ocean trenches or volcanic arcs. When two continental plates collide, they buckle and fold to create massive mountain ranges.

**Divergent Boundaries:** Plates move apart from each other, allowing molten magma to rise from the mantle, cool, and create new crust (e.g., mid-oceanic ridges).

**Transform Boundaries:** Plates slide horizontally past one another. The friction and stress at these boundaries often result in intense earthquakes.

#### Questions

1. What are tectonic plates and what are they composed of?
2. What are the three types of plate boundaries, and how do they differ?
3. What type of plate boundary is associated with the formation of mountain ranges?
4. What is a subduction zone?
5. What are the two types of lithospheres?

### **Day – 5**

## **Subject- English**

1. Make adverbs from these adjectives:

**Skilful, weary, beautiful, joyful, serious**

2. Make a sentence using each of the adverbs written by you in your own.

## **Subject- Hindi**

मान लीजिए आप एक स्थानीय समाचार पत्र के संवाददाता हैं। अपने समाचार पत्र के लिए बैलों के कॉजीहाउस से भागने का समाचार लिखिए।

कैसे लिखें-

शीर्षक दें।

घटना का विवरण (कहाँ, कब, क्या हुआ)।

परिणाम और लोगों की प्रतिक्रिया।

(संकेत- शीर्षक दो बहादुर बैलों ने तोड़ी बेड़ियाँ)

## **Subject – Odia**

୧. ଅର୍ଥଗତ ପାର୍ଥକ୍ୟ ଦର୍ଶାଅ ।

ସୁଧା-ସୁଧା, ବର-ବର, ବାସ-ବାସ, କର-କର, ଯୋଗ-ଯୋଗ

## **Subject- Maths**

1. Write the cube from 36 to 45
2. Check if  $x = -1$  is a zero of  $x^3 + x^2 - x - 1$ .
3. Decide whether  $x^2 + 4$  has real zeroes. Justify.
4. Verify the factor theorem for  $p(x) = x^2 - 5x + 6$ .
5. Factorize:  $2x^2 - x - 10$

## **Subject- Social Science**

### **Economics**

Compare the economic activities of Rural & Urban areas

## **Day – 6**

## **Subject- English**

1. Write a paragraph on “Our School”.
2. Prepare a chart on “The Present Simple” and “The Present Progressive” tenses using the verb ‘eat’.

## **Subject – Hindi**

निम्नलिखित प्रश्नों के उत्तर लिखिए-

१. झूरी के घर आने पर हीरा-मोती का स्वागत कैसे हुआ?
२. कृषि प्रधान समाज में पशुओं का क्या महत्व होता है?
३. कांजीहौस किसे कहते हैं? 'दो बैलों की कथा' पाठ के आधार पर लिखिए ।
४. झूरी अपने दोनों बैलों के साथ कैसा व्यवहार करता था ?
५. छोटी बच्ची हीरा और मोती को रोटियाँ क्यों खिलाती थी?

## **Subject - Odia**

ତୁମେ ଦେଖୁଥିବା ଏକ ଦର୍ଶନୀୟ ସ୍ଥାନର ବର୍ଣ୍ଣନା କର । (୧୦୦ ରୁ ୧୫୦ ଶବ୍ଦ ମଧ୍ୟରେ)

## **Subject – Maths**

1. Write the cube from 46-50.
2. Form a polynomial whose zeros are 3 and -2.
3. Construct a polynomial having 0 as one of its zero.
4. If  $x-2$  is a factor of  $p(x)=5x^2 + 3x - k$ . so find the value of K.
5. Make a polynomial of degree 3 with integer coefficient and at least one negative zero.

## **Subject- Social Science**

### **Civics**

1. What is the importance of elections in democracy.
2. Read newspaper articles related to recent assembly elections of different states and write a summary in your own words.

## **Subject – I.T**

### Quiz Activity

Topic:

“Computer Fundamentals Quiz”

Task:

Conduct MCQ quiz on:

Hardware and software

Networking

Cyber safety

Internet services

## **Summer Special Activity**

Make a first - aid box with all required essentials.