



RAINBOW PUBLIC SCHOOL

[Affiliated to CBSE 10+2, New Delhi]
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HOLIDAY HOME WORK (2024–25)

CLASS – X

SUBJECT – ENGLISH

1. Answer only three questions in 40-50 words.

- Who was Lencho? Why did he write a letter to god?
- Who read the letter of Lencho? What did he do then and how?
- What is a “Dust of Snow”? How does the poet present nature in a positive way in this poem?
- Where did the ceremony take place? What ideals does Mandela set out for the future of South Africa?
- Who was Mrs. Pumphrey? Why was she worried about Tricki and who helped her in such situation?

2. Answer only two questions in 120-150 words.

- Why did Mrs. Pumphrey say “It is triumph of surgery”? Who cured Tricki and how?
- Describes Lencho’s qualities in light of his faith in God. Do you have faith in God like Lencho? Was Lencho’s reaction towards post office employees right?
- Write a letter to the Editor of “The Times of India” complaining against rapid increase of robbery and snatching of public property in your locality.

CLASS – X

विषय – हिन्दी

- सूरदास, तुलसीदास और मन्नू भंडारी के जीवनी का सचित्र वर्णन करें।
- राम-लक्ष्मण-परशुराम संवाद का प्रतिपाद्य अपने शब्दों में लिखें। (सचित्र)
- नेताजी सुभाषचंद्र बोस के जीवन से जुड़ी किन्हीं तीन घटनाओं का सचित्र वर्णन करें।
- अलंकार की परिभाषा दें तथा इनके भेदों को सोदाहरण सहित लिखें (रंगीन)।
- सहायक अध्यापक के पद हेतु अपनी योग्यता का वर्णन करते हुए एक स्ववृत्त (बायोडाटा) लिखिए।
- कैप्टन चश्मेवाले का रेखाचित्र प्रस्तुत कीजिए।
- हालदार साहब के चरित्र की तीन विशेषताएँ बताइए।
- पुराना स्मार्टफोन बेचने हेतु एक आकर्षक विज्ञापन लिखिए।
- अनुच्छेद लिखें :- ‘लोकतंत्र और चुनाव’
संकेत बिंदु :- भूमिका, लोकतंत्र में चुनाव की प्रक्रिया, टिकट पाने की होड़, अमर्यादित रूप से चुनाव का प्रचार-प्रसार, उपसंहार।
- वृक्षों को काटकर बनाए जा रहे शॉपिंग माल्स का विरोध करते हुए अपने शहर के प्रतिष्ठित समाचार पत्र के संपादक को पत्र लिखिए।

CLASS – X

विषय :- संस्कृत

- अधोलिखित धातु पदानां पञ्च लकारे धातु रूपाणि लिखत।
(i) अस् (ii) क्री (iii) श्रु (iv) हन्
- अधोलिखित शब्दानां शब्दरूपाणि लिखत।
(i) भवात् (ii) राजन् (iii) विद्वान्
- एकपदेन व पूर्णवाक्येन उत्तराणि लिखत। प्रथमः पाठः द्वितीय पाठः च।
- “शुकसप्ततिः” ग्रंथस्य परीचयं हिन्दी भाषायां लिखत। रचनाकारः, कालगणना, कथानकः च वार्णित्वांसि।
- ‘बुद्धिर्बलवती’ पाठस्य कथासारः हिन्दी भाषायां लिखत।

६. २० विलोम पदानि व २० अव्यय पदानि अर्थ सहितेन लिखत् ।

क्रिया कलापं

७. जल प्रदुषणस्य वर्णनं स्वच्छ चित्रेण सहितेन प्रदर्शयति ।

CLASS – X

SUBJECT - MATHEMATICS

1. Find HCF of smallest prime number and the smallest composite number.
2. Prove that $\sqrt{3}$ is an irrational number.
3. Show relationship between zeroes and coefficients of a polynomial.
4. If one zero of the quadratic polynomial $(a^2 + 9)x + 13x + 6a$ is reciprocal of other find a.
5. The sum of two numbers, as well as, the difference between their squares is 9. Find the numbers.
6. The sum of the numerator and denominator of a fraction is 3 less than twice the denominator. If the numerator and denominator are decreased by 1, the numerator becomes half of the denominator. Determine the fraction.
7. Sumit is 3 times as old as his son. Five years later he shall be two and a half times as old as his son. How old is Sumit?
8. For what value of b the point (3, b) lies on the line represented by $2x - 3y = 5$?
9. If $ax + 6y = a^2 - b^2$ and $bx + ay = 0$ then find $x + y$.
10. If $\frac{x}{a} + \frac{y}{b} = 2$; $ax - by = a^2 - b^2$ find $\frac{x}{y}$.

CLASS – X

SUBJECT - PHYSICS

1. Draw the ray diagrams for Convex mirror when object placed at different positions.
2. Draw the ray diagrams for Concave mirror when object is placed at different positions from the mirror. (all six ray diagrams).
3. An object 4 cm in size is placed at a distance of 25.0 cm from a Concave mirror of focal length 15.0 cm. Find the position, nature and height of the image.
4. When an object is placed at a distance of 60 cm from a Convex mirror, the magnification produced is $\frac{1}{2}$. Where should the object be placed to get a magnification of $\frac{1}{3}$?
5. Make a project work on the reflection of light showing the bending also when it passes through one medium to another.

CLASS – X

SUBJECT - CHEMISTRY

1. Define chemical reaction. Give some example of daily life chemical reactions.
2. What is balanced chemical equation? Why should the chemical equations be balanced?
3. Translate the following statements into chemical equations and then balance them.
 - (a) Hydrogen gas combines with nitrogen to form ammonia.
 - (b) Hydrogen sulphide gas burns in air to give water and sulphur dioxide.
 - (c) Barium chloride reacts with Aluminium sulphate to give aluminium chloride and a precipitate of barium sulphate.
 - (d) Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.
4. A solution is a substance 'X' is used for whitewashing.
 - (i) Name the substance 'X' and write its formula.
 - (ii) Write the reaction of the substance 'X' named in (i) above with water.
5. What is a redox reaction? Explain with the help of suitable example.

CLASS – X**SUBJECT - BIOLOGY**

1. Name the four different types of teeth.
2. Name the enzymes present in the pancreatic juice and explain how it acts on the various foods?
3. Give the end products of digestion.

Food**End product of digestion**

- (a) Starch
 - (b) Proteins
 - (c) Fats/Oils
4. Write the difference between active transport & diffusion.
 5. Write the different methods of absorption of food. For each method of food absorption, mention the food items absorbed.
 6. Write the functions of the following :
(a) Salivary amylase (b) HCl (c) Bile (d) Pepsin
 7. Define peristalsis.
 8. Paramecium puts the food particle into its mouth with the help of _____.
 9. The process in which the digested food passes through the intestine into the blood stream is called _____
 10. Define : (a) Transpiration (b) Pseudopodia (c) Epiglottis

CLASS – X**SUBJECT - HISTORY**

1. What changes did Napoleon introduce to make the administrative system more efficient in the territories ruled by him?
2. 'Nationalism no longer retained its idealistic liberal democratic sentiments by the last quarter of the 19th century in Europe.' Analyse the statement with examples.
3. Why did the period of 1848 consider as phase of the Revolution of the Liberals in Europe? Explain.
4. Write three features of the painting of Frederic Sorrieu.
5. Explain Germany and Italian Unifications.

CLASS – X**SUBJECT - GEOGRAPHY**

1. Why is the issue of sustainability important for development?
2. What is Human Development Index? Which organization measures the HDI? Explain the three major indicators of the HDI.
3. How is red soil formed? Mention its three characteristics.
4. What are the main factors responsible for soil formation.
5. What are renewable resources? Why has it become necessary to use renewable energy resources?

CLASS – X**SUBJECT - CIVICS**

1. 'Power sharing is the essence of a democratic government'. Examine the statement.
2. Distinguish between the unitary and federal system of government.
3. What are the difference between a pressure group and a political party?
4. How is the idea of power sharing emerged?
5. How is the idea of power sharing emerged? Explain different forms that have common arrangement of power sharing.

1. Explain any four human activities which are mainly responsible for land degradation in India.
2. Describe the importance of resource planning.
3. Suggest any three ways to maintain Body Mass Index (BMI).
4. ‘Conflicting goals can also be developmental goals’. Elaborate with examples.
5. Describe any three features of a developed country.

All the following activities are part of the internal assessment.

For this student will be assessed out of 20 marks.

1. • Make a video(Using AI TOOLRUNWAY OR KAIBER Key Topics) /PPT for Effective Communication

Principles of Effective Communication

7C’s of Effective Communication

Barriers in Communication and how to overcome it.

Upload your project/PPT file to Google Drive , One Drive or any other cloud storage and share the link in below given Google CLASSROOM .

2. • Create a Power Point Presentation (PPT) for Stress Management Techniques.
Students will do YOGA or any other relaxing exercise on daily basis.
Shoot a small video and insert it in PPT.

Terms and Conditions File saving format Student name _class & section Upload your project file to Google Drive , OneDrive or any other cloud storage and share the link in below given Google CLASSROOM .
