

SACRED HEART SCHOOL

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ASSIGNMENTS FOR SUMMER VACATION (2025-26)

Class - X

SUBJECT- ENGLISH

- 1. Share a happy picture of yourself and describe yourself briefly. (Answer in about 100 words) Who are you as a person? What are your dreams or goals? What are your strengths and weaknesses? Also, what are the little things that keep you happy in life?
- 2. Have you read any story book or novel apart from your coursebook? (Answer in about 150 words) If yes, briefly describe the book and share what you liked most about it—whether it's the characters, storyline, message, or writing style.
- 3. What qualities do you admire most in other people, and why? (Answer in about 100 words) It could be honesty, kindness, confidence, creativity, or anything else. Explain what draws you to those traits.
- 4. Which is your favourite chapter from your English Book and why? (Answer in about 100 words) Describe what the chapter is about and explain why you liked it. You can mention what message it gives, what emotions it made you feel, or what you learned from it.

(above 1,2,3 and 4 to be done in a separate note book)

(Following to be done in English Notebook)

- Q1. What is the main idea that Robert Frost depicts through the poems——- 'Dust of Snow and Fire and Ice'
- Q2. How is the idea of 'freedom' depicted in 'A Long Walk to Freedom' and 'A Tiger in Zoo'?
- Q3. If Tricki could talk, what do you think he would say about his experience at Mrs. Pumphrey's house and then at the vet's clinic? Write a brief monologue.

SUBJECT-HINDI

- प्रश्न -1 नेताजी का चश्मा पाठ में नेताजी सुभाष चंद्र बोस की चर्चा की गई है।आजादी की लड़ाई में महत्वपूर्ण भूमिका निभाने वाले 10 क्रांतिकारियों की सूची तैयार करें। इन्में से किन्हीं एक की जीवनी का सचित्र वर्णन करें।
- प्रश्न -2 पाठ में लेखक का अपने पिता से गहरा जुड़ाव है, फिर भी संकट के समय वह माँ की शरण लेता है। इस प्रसंग के माध्यम से माता-पिता की भूमिकाओं के विभिन्न पहलुओं पर चर्चा कीजिए और बताइए कि आज के समय में इन भूमिकाओं में क्या परिवर्तन आया है।

SUBJECT- PHYSICS

- 1. light chapter exercise question number 1 to 15 NCERT.
- 2. define refractive index write refractive index of glass and water
- 3. draw ray diagram refraction through glass slab.
- 4. A light of $\lambda = 6000$ Ű in air enters a medium of n = 1.5. Inside the medium, find its wavelength and frequency in that medium.

SUBJECT- CHEMISTRY

1. Shiney brown color substance exhaust only heating year to form black substance Y. compound Y dissolved in dilute hydrochloric acid to form a bluish green colour compound z. identify xyz and write balanced chemical equation.

2. A metal x dissolving water to form a compound XOH[molar mas 40 g/mol] and evolve gas Y. Identify X and Y And write balance chemical equation.

3. A yellow colour compound is light sensitive in the presence of sunlight if terms to grey. Identify the yellow colour compound and write balance chemical equation.

4. A compound X dissolve in water to form a compound Y which is used in whitewash. Carbon dioxide pass through the compound Y it turns milky white Z. Identify xyz Android balance chemical equation.

5. Write the colour of litmus paper methyl orange and solo phenolphthalein in the following solution.HCl, NaOH,NaCl,H2SO4,lime water,SO3, MgO.

SUBJECT- BIOLOGY

- 1. Two green plants are kept separately in oxygen free containers, one in dark and the other in continuous light. Which one will last longer? Give reasons.
- 2. In each of the following situations what happens to the rate of photosynthesis?
 - (a) Cloudy days
 - (b) No rainfall in the area
 - (c) Good manuring in the area
 - (d) Stomata gets blocked due to dust.
- 3. Complete the following flow chart as given instructions

Gastric glands in the wall of stomach

- Secretions (a) (b) (c)
- Functions (d) (e) (f)
- 4. Design an activity to show that chlorophyll is essential for Photosynthesis.
- 5. Leaves of a healthy potted plant were coated with vaseline. Will the plant remain healthy for long? Give reasons for your answer.
- 6. List the role of each of the following in the digestive system: -
 - (a) Pancreatic amylase (b) Trypsin (c) Lipase (d) Mucus (e) Pepsin

SUBJECT- MATH

Chapter 1: Real Numbers

- 1. Aman and Rohit start jogging around a circular park. Aman takes 18 minutes and Rohit takes 24 minutes to complete one round. After how many minutes will they meet at the starting point again?
- 2. A rectangular tile of dimensions 30 cm by 45 cm is to be used to pave a square courtyard without cutting the tiles. What is the largest size of the square tile that can be used?
- 3. Two bells ring at intervals of 40 seconds and 60 seconds. Both bells rang together at 9:00 AM. When will they ring together again?

Chapter 2: Polynomials

- 4. A company wants to design a rectangular advertisement board whose area is represented by the polynomial $x^2 + 5x + 6$. Find its possible dimensions.
- 5. The product of two consecutive integers is represented by the polynomial $x^2 + x$. Find the integers if the product is 56.
- 6. A gardener wants to plant a square garden. The area of the garden is given by the polynomial $x^2 + 10x + 25$. What should be the side length of the garden?

Chapter 3: Pair of Linear Equations in Two Variables

- 7. The sum of the digits of a two-digit number is 9. If the digits are reversed, the new number is 27 more than the original number. Find the number.
- 8. A boat takes 4 hours to go 48 km downstream and comes back in 6 hours. Find the speed of the boat in still water and the speed of the current.
- 9. Two types of pens cost ₹5 and ₹7 each. Ramesh buys a total of 10 pens for ₹60. How many pens of each type did he buy?

Chapter 4: Quadratic Equations

- 10 A train travels a distance of 480 km at a uniform speed. If the speed had been 8 km/h less, it would have taken 3 hours more to cover the same distance. Find the speed of the train.
- 11 A person throws a ball upwards. The height (in meters) of the ball after t seconds is given by the equation $h = -5t^2 + 20t + 1$. After how many seconds will the ball reach the maximum height?
- 12 A rectangular garden has an area of 96 m². If its length is 4 m more than its width, find the dimensions of the garden.

SUBJECT- HISTORY

Chapter 1: The Rise of Nationalism in Europe

Type: Research-Based Project

Objective: To explore how the idea of nationalism spread across Europe and led to the formation of nation-states in the 19th century.

Project Title: "Nationalism and the Making of Europe in the 19th Century" **Instructions**:

- **a.** Choose one theme or country from the options below.
- **b.** Research using the NCERT textbook, internet sources, encyclopaedias, and documentaries.
- **c.** Present the project in the form of a scrapbook / file / PowerPoint / handmade project book.
- d. Include pictures, maps, timelines, and handwritten notes wherever possible.
- e. Project should be 5–8 pages/slides in length.

SUBJECT- GEOGRAPHY

Discuss about Treaties and conventions- for the improvement and protection of the environment.

- 1) Montreal Protocol
- 2) Kyoto Protocol
- 3) Paris Agreement
- 4) United Nations Framework Convention on Climate Change (UNFCCC)
- 5) Ramsar Convention on Wetlands

SUBJECT- CIVICS

POLITICAL PARTIES IN INDIA

- 1. Why do we need political parties?
- 2. Political parties and its components.
- 3. Functions of political parties.
- 4. Party systems.
- 5. National and state parties.
- 6. Challenges to political parties.
- 7. How do parties reformed?

Note: Prepare above project work in stick file

SUBJECT- ECONOMICS

- 1. Make a project on sector of Indian economy including GDP report of India for previous 10 years based on all three sectors named Primary, Secondary and Tertiary
- 2. Watch the movie named "HICHKI" and explain the character of Teacher named "Naina Mathur"
- 3. Write about the best teacher of your school as your opinion (Based on subjects matter, Behaviour and politeness)

SUBJECT- IT

On 8th Nov 2016, the Indian government has announced that the currencies of rupees 1000 and 500 is not acceptable over the Pan India. Due to sudden announcement of demonetisation lots of people had faced several problems even they had money but couldn't buy necessary goods. After some days of demonetisation people were standing in front of bank, ATM & post office since morning to evening to exchange the currencies. During that period lots of people lost their lives. The reason behind the demonetisation to control the fake currencies as well as corruption but now a days fake currencies are active. But due to demonetisation transactions are held with digital

payments like UPI, PHONEPAY, Paytm etc. Since demonetisation, digital payments is growing with fastest payments system.

- 1. What do you mean by demonetisation?
- 2. Do you think after demonetisation fake currency and corruption are stopped?
- 3. Do you think demonetisation was right decision to control the corruption and Fake currency? If no, what would be the alternate option?
- 4. What is digital payment system? How it works?
- 5. Analyse and research how many people lost their lives during the demonetisation?