



**St. XAVIER'S HIGH SCHOOL**

**EDUCATION FOR ALL**

**BANKURA, WB**

**Affiliation No.: 2430130**

**Affiliated to CBSE (New Delhi) 10+2 level**

**School Code: 15720**

**SUMMER VACATION ASSIGNMENT (2025-2026)**

**Class-IX**

**Subject: English**

**A. Prepare a Project of the same topic according to the assigned Roll no. (Part of your ASL internal exam)**

**Information regarding the project:**

1. The project should be in handwritten form in practical sheets. No Printed Project is accepted.
2. Project must contain pictures (Mandatory).
3. The project must contain the following points:
  - a) Cover Page (School name, school logo, name of topic, students name, class, subject, session, roll number, guided by in printed form only.
  - b) Certificate
  - c) Index
  - d) Introduction to the topic.
  - e) Main content (Meaning, Definition if any, Writer's life, Importance of the text, Work's Influence on us, role in our life, etc.)
  - f) Conclusion.
  - g) Bibliography/References
4. Submit the project report in a lace file with appropriate cover.

**TOPIC.  
ASSIGNED**

**ROLL NO.**

1. "A Trip to the Futuristic Schools" with Sci-fi writer Asimov and his story *The Fun They Had*. :- Roll no 01 to 15

2. Robert Lee Frost's significant poetical works and their influence on Modern man. (any two) :- Roll no 16 to 30

3. Exploring the themes of Nature vs. Civilisation in W. B. Yeats "*The Lake Isle of Innisfree*" :- Roll no 31 to 45

4. Exploring the themes of compassion, sacrifice and the contrast between the wealthy and suffering through the story of *The Happy Prince* by Oscar Wilde. :- 46 to 60 or rest.

## Subject: Bengali

- ১। 'ইলিয়াস' গল্পে ইলিয়াস ও মহম্মদ শা এর চরিত্র বিশ্লেষণ করো।
- ২। 'এই জীবন' কবিতার মূল বক্তব্য নিজের ভাষায় লিখ।
- ৩। 'আম আঁটির ভেঁপু' গল্পের প্রথম পাঁচটি পরিচ্ছেদের মূল ভাব নিজের ভাষায় লিখ।
- ৪। উদাহরণ দিয়ে স্বরসন্ধির পাঁচটি নিয়ম বুঝিয়ে লিখ।
- ৫। 'নিত্য প্রয়োজনীয় জিনিসপত্রের দাম আকাশ ছোঁয়া' ----- এ বিষয়ে সংবাদ পত্রের জন্য একটি প্রতিবেদন রচনা করো।
- ৬। 'ইলিয়াস প্রতিবেশীকে ধন্যবাদ দিল।'----- কার লেখা? কোন রচনার অংশ? 'প্রতিবেশীকে' বলতে এখানে কার কথা বলা হয়েছে? ইলিয়াস কেন প্রতিবেশীকে ধন্যবাদ দিয়েছিল?
- ৭। 'আমার চাই সব লাভণ্য' ----- কোন প্রসঙ্গে এই উক্তি? কার কোন সব লাভণ্য চায় তা কবিতা অনুসারে সন্ধান কর।

## Subject: Hindi

- प्रश्न.1 किन घटनाओं से पता चलता है कि हीरा और मोती में गहरी दोस्ती थी?
- प्रश्न.2 छोटी बच्ची को बैलों के प्रति प्रेम क्यों उमड़ आया?
- प्रश्न.3 कांजीहौस में पशुओं की हाजिरी क्यों ली जाती होगी?
- प्रश्न.4 मानसरोवर से कवि का क्या आशय है?
- प्रश्न.5 इस संसार में सच्चा संत कौन कहलाता है?
- प्रश्न.6 मनुष्य ईश्वर को कहां-कहां ढूँढता है?
- प्रश्न.7 बाढ़ की खबर सुनकर लोग किस तरह की तैयारी करने लगे?
- प्रश्न.8 मृत्यु का तरल दूत किसे कहा गया है और क्यों?
- प्रश्न.9 उपसर्ग और प्रत्यय किसे कहते हैं? उदाहरण देकर समझाइए
- प्रश्न .10 आगमन, लापरवाह शब्द से उपसर्ग और मूलशब्द अलग-अलग कीजिए।
- प्रश्न.11 गिरावट और भ्रूखा से प्रत्यय और मूलशब्द अलग-अलग कीजिए।
- प्रश्न.12 समास किसे कहते हैं? परिभाषा और उसके भेदों को उदाहरण देकर लिखिए।

## Subject: Mathematics

1. Simplify each of the following:

$$(i) \sqrt[3]{4} \times \sqrt[3]{16}$$

$$(ii) \frac{\sqrt[4]{1250}}{\sqrt[4]{2}}$$

2. Rationalize the denominator and simplify:

$$(i) \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$$

$$(ii) \frac{5+2\sqrt{3}}{7+4\sqrt{3}}$$

$$(iii) \frac{1+\sqrt{2}}{3-2\sqrt{2}}$$

$$(iv) \frac{2\sqrt{6}-\sqrt{5}}{3\sqrt{5}-2\sqrt{6}}$$

$$(v) \frac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}+\sqrt{18}}$$

$$(vi) \frac{2\sqrt{3}-\sqrt{5}}{2\sqrt{2}+3\sqrt{3}}$$

3. Write down all the algebraic identities in a page. (Make a formula sheet)

4. Write down all the laws/ properties exponent.

5. Write the statements : Factor theorem, Remainder theorem.

**Subject: Science**

**PHYSICS/ BIOLOGY/CHEMISTRY**

**PRACTICAL:**

1. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
2. Preparation of stained temporary mount of onion peel to record observations and draw their labeled diagram.
3. True Solutions, Suspensions and Colloids

Exp. 1: To prepare a true solution of common salt , sugar in water.

Exp.2: To prepare suspensions of soil, chalk powder and fine and separately in water

**PROJECT**

A. Prepare the project/ portfolio according to the assigned Roll No.  
Sequence of roll number is already provided.

Instructions regarding the project:

1. The project should be in handwritten form in A4 sheets. No Printed Project is accepted.
2. Project must contain pictures (Mandatory), statistical representation (if any).
3. The project must contain the following points:
  - a. Coverpage ( School name, school logo, name of topics, students name, class, subject, subject code(086), session, roll number, guided by) in printed form only.
  - b. Certificate with place for teacher signature,Principal signature, in printed form only
  - c. Acknowledgement
  - d. Index
  - e. Introduction/Abstract about the topic provided.
  - f. Main content (Definition, meaning, importance, advantage, disadvantages etc.)
  - g. Future aspects
  - h. Conclusion
  - i. Bibliography

Projects :

- 1.To study the laws of motion and it's application. (Roll No.-1-10)
2. To study six infectious diseases. Elaborating their causative organism, symptoms, preventive measures and vaccination. (Roll No. 11-20)
3. To study the doppler effect of sound. (Roll No. 21-29)
4. Investigate how varying pH levels in soil affect the growth and health of plants.(Roll No. 30-38)
5. To study the various types of culture under animal husbandry.(Roll No. 39-47)
6. Use China rose extraction or red cabbage extraction as a natural indicator to test the pH of various household substances(Roll No. 48-56)

### **Subject: Social Science**

1. Describe the circumstances leading to the outbreak of revolutionary protest in France.
2. How was French society organised before the revolution of 1789 ?
3. What landmark decisions were taken by the National Assembly led by the Third Estate on 4th August, 1789 ?
4. Who were the Jacobins ? What was their contribution to the French Revolution ?..

5. "The revolutionary government took it upon themselves to pass laws that would translate the ideals of liberty and equality into everyday practice." Discuss this statement with special emphasis on the abolition of censor
6. Did women have a revolution in 1789 and after it ?
7. Describe causes for the fall of the Jacobin government in France.
8. Explain the role of philosophers in the French Revolution of 1789.
9. Describe the incidents that led to the storming of the Bastille.
10. Which estate of the French society paid all taxes?
11. What was the system of voting in the Estates General? What change did the Third Estate want in this system?
12. Name three famous writers and philosophers who influenced the French Revolution. What were their ideas?
13. What is the significance of 'The Tennis Court Oath' in the French Revolution?
14. Explain the "Reign of Terror" in brief.
15. What are the three important ideas of the French Revolution? How were they guaranteed under the constitution of 1791?

### **Subject: AI**

Q1. Write a python code to perform all arithmetic operations (+, -, /, //, \*, \*\*, %).

Q2. Write a python code to calculate the area and perimeter of a rectangle .

Q3. Write a python code to check if a number is even or odd.

Q4. Write a python code to check if a number is positive, negative or zero.

Q5. Write a python code to find out simple interest and compound interest.

Q6. Write a python code to find out the Factorial of a Number.

**\*\*\* All the above python code must be written (Hand Written) in A4 size page with proper front page and submit in a channel file.**

### **Q7.) POSTER MAKING**

**a) How artificial intelligence is transforming the world?**

**b) Types of AI and AI future**

**ALL THE ASSIGNMENT SHOULD BE DONE IN THE RESPECTIVE SUBJECT COPIES.**