

**TOPICS FOR PROJECT 2024-2025
STD. IX**

GENERAL GUIDELINES FOR ALL SUBJECTS ICSE PROJECTS 2024 -25:

- ✓ First page should include the following details:
 - Name: [Surname Name]
 - Std. Div.
 - Roll No.
 - Subject: "Literature in English : ICSE Project 2024-25" (EXAMPLE)
- ✓ Attempt ALL the assignments.
- ✓ ONLY use WHITE A4 size BOND papers [interleaf].
- ✓ Outer cover should be attractive and creative. It can be neatly printed.
- ✓ Matter should be well organized.
- ✓ Leave a line after every paragraph.
- ✓ Use an INK PEN [Blue/Black] to write. Please avoid glitter/sketch pens to write. Maintain neatness.
- ✓ Paste a postcard or two postcard pictures on the plain side of the paper. Avoid tapes please.
- ✓ Images should be appropriately captioned and bordered.
- ✓ End with a bibliography.
- ✓ Your project is for 20 marks

The project must be spiral bound. Avoid using staplers, strings, pins, etc.

LANGUAGE

Write an original story (750 words) about a group of friends who embark on a thrilling adventure during their summer vacation. Describe the challenges they face, the bond of friendship that is strengthened among them, the skills they put to use and the life lessons they learn along the way.

LITERATURE

EACH segment of Literature comprising DRAMA, POETRY & PROSE should be approximately of 500 words.

A. DRAMA: JULIUS CAESAR by William Shakespeare

Make a plot summary of the Drama Julius Caesar using pictures and images.

Cassius is the most manipulative character in the Drama 'Julius Caesar' prove this statement by giving references from the text.

B. POETRY

'The Work of Artifice' by Marge Piercy, highlights the subjugation and subordination of women by society. Justify by illustrating the metaphor implied in the poem.

The poem serves as an impressive declaration of women's capabilities. Justify by giving reference to a powerful female personality and her achievements. (Stick a picture) – specify.

C. PROSE.

'Oliver asks for More' shows a blaring distinction of the society 'The haves and the have nots'.

How has Charles Dickens portrayed this, through the description of the children in the orphan house and master?

History and Civics

Topic: Sangam Age

Gather and write information about any 2 Temples during the Sangam Age.

Points to include

- When and where was the temple built?
- □ Who built it?
- □ What is the significance of the temple?

Find out information about two eminent rulers during the Sangam Age

- How did they govern their kingdom?
- □ What was their contribution towards the kingdom.

Pictures for the temple and rulers are mandatory.

GEOGRAPHY

Outlined below is a comprehensive plan for the project:

- Research Project: The project will entail extensive research on various natural regions across the globe, focusing on their distinct characteristics, including geography, climate, vegetation, wildlife, and human adaptations.
- Class Representation: Each student will be assigned a specific natural region to study and present their findings to the class.
- Introduction: A brief overview of the concept of natural regions and their significance in understanding global geography will be provided.
- Area: Detailed information on the area covered by the selected natural region will be presented, including its size and boundaries.
- Location: Clear identification of the location of the natural region on a world map will be provided, along with relevant geographical features.
- Climate: Analysis of the climate patterns, including temperature, precipitation, and seasonal variations, will be conducted.
- Natural Vegetation: Description of the types of vegetation found in the region, including forests, grasslands, deserts, and tundra.
- Wildlife: Exploration of the diverse wildlife species inhabiting the natural region, highlighting their adaptations to the environment.
- Human Adaptation: Examination of how human populations have adapted to the natural environment, including cultural practices, livelihoods, and resource management strategies.
- World Map to Mark the Region: Each student will create a world map indicating the location of their assigned natural region, enhancing their spatial awareness and cartographic skills. By undertaking this project, students will not only deepen their understanding of global geography but also develop critical research, presentation, and analytical skills. Furthermore, it will foster a greater appreciation for the diversity and interconnectedness of natural environments worldwide.

PHYSICS

Experiments done in physics journal through the course of the year

CHEMISTRY

Chemistry Journal work

BIOLOGY

Practical's & journal work

ECONOMICS

Topic 1

Collect information on **any ONE** recent government scheme in context to the Infrastructural development in the country.

- (i) Smart cities mission
- (ii) Coastal Project in Mumbai
- (iii) Metro rail
- (iv) Skill India
- (v) Digital India

Topic 2

Explain the **role of Information Technology (IT)** sector in India's economic development.

COMMERCIAL STUDIES

TOPIC 1.

Visit any **NGO** in your area and write a report on their working in promoting social entrepreneurship and economic development.

TOPIC 2.

Visit a **Retail shop or a wholesaler**, learn the types of products they are dealing with.

Find out the different aids to trade used by them.

MATHEMATICS

TOPIC 1 : COMPOUND INTEREST

1. What is compound interest?
2. How does compound interest differ from simple interest?
3. Explain the formula for calculating compound interest.
4. Provide an example illustrating the calculation of compound interest.
5. How does the frequency of compounding affect the total amount of interest earned?
6. What is the difference between annual compounding and quarterly compounding?

7. How can compound interest be used to grow savings over time?
8. Explain how compound interest is relevant in real-life financial scenarios.

TOPIC 2 : IRRATIONAL NUMBERS

1. What are irrational numbers?
2. How do irrational numbers differ from rational numbers?
3. Explain the construction of irrational numbers on a number line.
4. Draw $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$, $\sqrt{10}$, $2+\sqrt{2}$ on a real number line
5. Discuss the importance of irrational numbers in mathematics and real-life applications.
6. How do irrational numbers contribute to the completeness of the real number system?
7. What are some key properties of irrational numbers that distinguish them from rational numbers?
8. Prove that $\sqrt{7}$ is an irrational number

ART

2 Canvas Paintings (any copy work...like a landscape, portrait, abstract painting)

SIZE 1 12* 12 INCHES

2 18 *18 INCHES

The size of the Canvass should be close to the above mentioned size.
Slight deviation is acceptable.

ST PETERS SCHOOL MAZGAON MUMBAI-10
COMPUTER APPLICATION CLASS 9- 2024
ASSIGNMENT (PROJECT WORK)

NOTE: Project to be done in Interleaf Journal.

Cover the Journal with White sheet.

Cover page can be printed and stuck on the Journal.

On the Right Side of the Journal Question, Answer and Program to be written.

Left Side of the Journal Variable description to be written.

Assignments 1-10 to be done in the First Term.

Assignments 11-20 to be done in the Second Term.

Question 1

Answer the following

- a) Name the four Principles of OOP'S
- b) Name the four packages in Java

Question 2

Define the following

- a) Abstraction
- b) Token

Question 3

Complete the following Table

Data Type	Memory size in byte/bytes
byte	
short	
int	
long	
float	
double	
char	
boolean	

Question 4

Differentiate between (2 points each)

- a) Object and Class
- b) for and while loop

Question 5

Solve the following

- a) $a += a++ + --a + a--$; when $\text{int } a = 5$;
- b) $x = x++ * 2 + 3 * --x$; when $\text{int } x = 8$;

Question 6

Solve the Following

- a. Math.ceil(6.3)
- b. Math.floor(3.9)
- c. Math.pow(7,3)
- d. Math.sqrt(81)
- e. Math.abs(-5.8)
- f. Math.max(-2.8,-3.8)
- g. Math.min(2.5,3.5)
- h. Math.round(8.8)
- i. Math.round(2.4)
- j. Math.cbrt(64)

Question 7

Write a program to input name of the student, marks obtained in physics, chemistry and biology subjects. Calculate Total and average marks. Print the Output in the following manner.

Name	Physics	Chemistry	Biology	Total	Average
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Question 8

A TOURIST IS CHARGED TAXI FARE BASED ON NUMBER OF KILOMETERS TRAVELLED

KILOMETER	RATE PER KILOMETER IN RS
FOR FIRST KILOMETER	25
FOR NEXT 4KM	20
FOR NEXT 5 KM	15
FOR NEXT 10 KM	10
ABOVE 20 KM	5

Write a program to input km and calculate the bill based on the above conditions

At the end of the program print the name and bill amount.

Question 9

Write a program to input salary of a person from the user and print tax amount

Based on the following conditions

SALARY	TAX
FIRST RS 2,50,000	NIL
NEXT RS 2,50,000	10%
NEXT RS 5,00,000	20%
ABOVE RS 10,00,000	30%

Question 10

Write a program to input 3 numbers from the user using Scanner class and print the lowest number. If equal then print the appropriate message.

Question 11

Program to print the following using for loop

- a) 10 15 20 25 30 35 40
- b) 50 40 30 20 10

Question 12

Program to print the following using while loop

- a) 1 3 5 7.....N
- b) 10 8 6 4 2

Question 13

Program to print the following series using loop

- a) $3*6*9*12*15=?$ (for loop)
- b) $1+4+9+16+25=?$ (while loop)

Question 14

Write a program to print odd and even numbers using switch case option

Press 1 for odd number from 1 to 50

Press 2 for even number from 2 to 40

Question 15

WAP using switch case to print the following option

Press 1 to Find Area of Triangle

Example Area of Triangle= $\frac{1}{2}$ *Base*Height

Press 2 to Find Area of Square Example

Area of Square=Side*Side

Press 3 to Find Area of Rectangle

Example Area of Rectangle=length*breadth

For an incorrect choice, an appropriate error message should be displayed.

Question 16

Using a switch statement, write a menu driven program to convert a given temperature from Fahrenheit to Celsius and vice versa. For an incorrect choice an appropriate error message should be displayed.

HINT: $C = \frac{5}{9} \times (F - 32)$

$F = 1.8 \times (C + 32)$

Question 17

Write a program to input one number from the user and print product of every digit of the number.

Input number : 246
Output : 48

Question 18

Write a program to input a number from the user and print count of factors of input number.

Input number : 6
Output : 4

Question 19

Write a program to input a number and check whether it is prime or composite number.

Input number 7 output prime number
Input number 8 output composite number

Question 20

Write a program to input one number from the user and print whether the number is Armstrong Number or not.

(Armstrong number is the number in which sum of cubes of the digits is equal to the number)

Input number :153

Armstrong number= $1+125+27$

=153

STD.:- 9th
हिन्दी परियोजना
(HINDI PROJECT)

1) कवि की जीवनी :-

'कबीर दास'

(400 शब्द)

2) निबंध लेखन

आज का युग कम्प्यूटर का युग है, अतः आधुनिक युग में विविध क्षेत्रों में कम्प्यूटर की उपयोगिता को ध्यान में रखकर उसके लाभ और हानियों के बारे में लिखिए।

(400 शब्द)

3) कहानी लेखन: -

एक कहानी लिखिए जिसका आधार निम्नलिखित कथन हो - " जाको राखे साइयां मार सके ना कोइ "

(350 शब्द)

4) सारांश लेखन

'काकी' कहानी का सारांश अपने शब्दों में लिखिए।

(350 शब्द)

ST. PETER'S SCHOOL, MAZAGAON - MUMBAI 10.

STD - IX - [मराठी प्रकल्प]

MARATHI PROJECT - 2024/25

१] निबंध लेखन -

- दैनंदिन मानवी जीवनातील व्यायामाचे महत्व सांगून कोणत्याही दोन व्यायामाचे प्रकार चित्रासहित स्पष्ट करून लिहा.

[४०० शब्द]

२] सारांश लेखन -

- ' जी . आय . पी . रेल्वे ' या पाठाचे सारांश लेखन तुम्ही तुमच्या शब्दांत लिहावा .

[३५० शब्द]