

Alpine International School

**Jalalabad, Distt. Shamli,
Uttar Pradesh**

holidays
homework



2024

2025

Class IX to XII

Dear Students

Summer Vacation is the best time of the year for you all; it is time for loads of fun.

“Learning at school has provided students with a plethora of activities to help the modern -day learners come at pace with the challenges. Gone are the days when the process of learning and imparting lessons was a conventional process compressed into rigorous models. To make learning a fun and 360-degree experience for the students, we have laid down the importance of holiday homework in making learning an enriching experience.

A gradual progress towards achieving your goals always helps reach your destination. Board examination is not the ultimate goal in life but INDEED MOST SIGNIFICANT TURN. Keep preparing regularly and to help you in it; your teachers have provided you with selected questions from all topics taught in the month of April and May.

“You are instructed to solve them in your fair notebooks.”

Some tips to make this holiday special:

- **Close your laptop and turn off your phone.**

Switch off all devices and forget about social networks. Some things will prove difficult to ignore but in order to make the most of our vacation it is indispensable to limit the time we allot to be “online”.

- Play board games with your parents and siblings and show them who is the smartest.
- Spend some quality time with your grandparents.

Some do’s during summer vacation:

- Take nutritious/ healthy diet with plenty of water and include seasonal fruits in your diet as much as possible. Avoid supplements from market. Don’t join GYMS, do light exercises at home or play early morning in the ground or fields.

Wear light cotton clothes.

- Be a leader in keeping yourself, your school, family, and community healthy.
- Birds need you this summer. Summer is at its peak. Make a small bird feeder and place bird
- Baths for thirsty birds in terraces, compound walls and balconies. Do your bit to save them. Spread this message!!

Ms. NIRMALA MALIK

PRINCIPAL

Note- School reopens on 1ST July 2024

Instructions for Holiday Homework

- Read every day for at least 30 minutes, choosing books or articles you like.
- Practice math problems to keep your skills sharp.
- Write essays or articles on topics you find interesting to improve your writing.
- Research specific topics and present your findings.
- Review your notes from last semester to stay on top of your subjects.
- Get creative with projects like making posters or designing models.
- Practice language skills through exercises like vocabulary building and grammar drills.
- Take online courses related to your subjects at your own pace.
- Stay active with sports or outdoor activities for a healthy balance.
- Set clear deadlines to manage your time effectively.

Evaluation Criteria:

- Creativity and originality.
- Clarity of expression.
- Adherence to word limits.
- Presentation and neatness.
- Overall effort and engagement with the tasks.

ALPINE INTERNATIONAL SCHOOL

CERTIFICATE

This is to certify that the Project /Practical file / Report titled-
_____ is submitted by
_____ of class
_____ to _____

This project is considered a part of practical exam of AISSCE 2024-25
Subject _____ conducted by Central Board of Secondary Education , a
bonafide record of project work carried out under our guidance and supervision at Alpine
International School, Jalalabad, Shamli.

INTERNAL

EXTERNAL

VICE PRINCIPAL

PRINCIPAL

ACKNOWLEDGEMENT

I express my gratitude towards my guide Ms./Mr. _____ for her extended guidance and support in completion of this Project Report. I would like to thank Madam Principal, Madam Vice Principal and Academic Coordinator for their great support and encouragement. Last but not the least I thank my parents and God Almighty for their support and blessings.

Student's Name : _____
Class and Section : _____
CBSE Roll Number : _____

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S.NO	PARTICULARS	PAGE NO.	TEACHER'S SIGN

English:

1. Make a presentation on how technology affects society. Show both its advantages and disadvantages, and suggest ways to use technology wisely.
2. Create a set of flashcards with 30 new vocabulary words. Write a sentence for each word to illustrate its meaning and context.
3. Compose a poem inspired by nature's beauty and its ability to evoke deep emotions and introspection. Use vivid imagery and sensory details to convey your thoughts and feelings.
4. During your holidays, write a daily diary entry of at least 120 words. Describe your experiences, feelings, and thoughts. Make sure to write clearly and use proper grammar. After the holidays, choose your most memorable day and write a 400-word essay using details from your diary

Hindi:

1-चित्रकारियों के माध्यम से निम्नलिखित बिन्दुओं को ध्यान में रखते हुए किसी एक विषय पर परियोजना कार्य पुस्तिका (फाइल)तैयार कीजिए।

विषय-कवि तुलसीदास

अथवा

कवि सूरदास

संकेत बिन्दु- प्रस्तावना

जन्मस्थान व माता-पिता

बचपन व शिक्षा

विवाह

रचनाएं

मृत्यु

भाषा - शैली

रचनाओं का संक्षिप्त परिचय

धन्यवाद

2-निम्नलिखित पाठों के आधार पर स्वयं दस-दस बहुविकल्पीय प्रश्नों का निर्माण कीजिए।

1-माता का आंचल (अंचल)

2-राम-लक्ष्मण-परशुराम संवाद

3-नेता जी का चश्मा

Mathematics:

DO THE FOLLOWING ACTIVITY IN THE MATHS LAB MANUAL:

1. To draw the graph of a quadratic polynomial and observe; i) The shape of the curve when the coefficient of x^2 is positive. ii) The shape of the curve when the coefficient of x^2 is negative. iii) Its number of zeroes.
2. To verify the conditions of consistency / inconsistency for a pair of linear equations in two variables by graphical method.
3. To identify Arithmetic Progressions in some given lists of numbers .
4. To find the sum of first n natural numbers.
5. To find the sum of first n odd natural numbers.

SHORT ANSWER TYPE QUESTIONS

1. For what value of p for equation $2x^2 - 4x + p = 0$ will have real roots?
2. One year ago, a man was 8 times as old as his son. Now his age is equal to the square of his son's age. Then find their present ages
3. Find the sum of the roots of the quadratic equation $3x^2 - 9x + 5 = 0$?
4. If $\frac{1}{2}$ is a root of the equation $x^2 + kx - \frac{5}{4} = 0$ then find the value of k?
5. A natural number, when increased by 12, equals 160 times its reciprocal. Find the number?
6. If the one root of the equation $4x^2 - 2x + p - 4 = 0$ be the reciprocal of other, find the value of p.
7. Find the roots of the following quadratic equations by factorization: $x^2 - 3x - 10 = 0$
8. Find two numbers whose sum is 27 and product is 182
9. The sum of the squares of two consecutive natural numbers is 313, then find the numbers
10. Write the quadratic equation whose one root is $3 + \sqrt{2}$
11. For what value of p, the equation $px^2 + 6x + 4p = 0$ has product of roots equal to sum of the roots.

LONG ANSWER TYPE QUESTIONS

1. If -5 is a root of the quadratic equation $2x^2 + px - 15 = 0$ and the quadratic equation $p(x^2 + x) + k = 0$ has equal roots, find the value of k.
2. Solve the following quadratic equation for x: $4x^2 + 4bx - (a^2 - b^2) = 0$
3. The sum of the areas of two squares is 468 m^2 . If the difference of their perimeters is 24 m, find the sides of the two squares.
4. A train travels 180 km at a uniform speed. If the speed had been 9 km/hour more, it would have taken 1 hour less for the same journey. Find the speed of the train.
5. In a flight of 600 km, an aircraft was slowed due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. Find the original duration of the flight.
6. The difference of squares of two numbers is 180. The square of the smaller number is 8 times the larger number. Find the two numbers.
7. The sum of reciprocals of Rehman's ages (in years) 3 years ago and 5 years from now is $\frac{1}{3}$. Find his present age.
8. The diagonal of a rectangular field is 16 metres more than the shorter side. If the longer side is 14 metres more than the shorter side, then find the lengths of the sides of the field

CASE STUDY 1:

Nidhi and Ria are very close friends. Nidhi's parents own a Maruti Alto. Ria's parents own a Toyota Liva. Both the families decide to go for a picnic to Somnath temple in Gujrat by their own cars. Nidhi's car travels x km/hr while

Ria's car travels 5 km/hr more than Nidhi's car. Nidhi's car took 4 hours more than Ria's car in covering 400km.

1. What will be the distance covered by Ria's car in two hours? What is the speed of Nidhi's car?
2. What is the speed of Ria's car? How much time Ria took to travel 400 km?

CASE STUDY 2

An Auditorium was booked for School Annual Day Celebrations and the seats are arranged in a particular manner. The numbers of rows are equal to the number of seats in each row. When the number of rows was doubled and the number of seats in each row was reduced by 10, the total number of seats increased by 300.

Based on the above information answer the following questions

1. If x is taken as number of row in original arrangement which quadratic equation describe the situation? How many numbers of rows are there in the original arrangement?
2. How many seats are there in the auditorium in original arrangement? How many seats are there in the auditorium after re-arrangement?

CASE STUDY 3

Some students planned a picnic to Wayanad as a part of their Scout and guide activities. The total budget for picnic was Rs.2000 for each student. But 5 students failed to attend the picnic and thus the contribution for each student is increased by Rs.20. The details of other expenditures are given in the table below

Article	Entry ticket	Coffee	Food	Travelling Cost	Ice Cream
Cost per student	5	10	25	50	1

1. If x is the number of students planned for picnic, write the correct quadratic equation that describe the situation? What is the number of students planned for picnic?
2. What is the number of students who attended the picnic? What is the total expense for this picnic?

(Physics)

- The laws of reflection hold true for
(a) plane mirrors only (b) concave mirrors only
(c) convex mirrors only (d) all reflecting surface
- When an object is kept within the focus of a concave mirror, an enlarged image is formed behind the mirror. This image is
(a) real (b) inverted
(c) virtual and inverted (d) virtual and erect
- Rays from the sun converge at a point 15 cm in front of a concave mirror. Where should an object be placed so that the size of its image is equal to the size of the object?
(a) 15 cm in front of the mirror (b) 30 cm in front of the mirror
(c) between 15 cm and 30 cm in front of the mirror
- No matter how far you stand from a mirror, your image appears erect. The mirror is likely to be
(a) Plane (b) Concave (c) Convex (d) Either plane or convex

5. As light travels from a rarer to a denser medium it will have

- (a) Increased velocity (c) Decreased velocity
(b) Decreased wavelength (d) Both (b) and (c)
- A student conducts an activity using a flask of height 15 cm and a concave mirror. He finds that the image formed is 45 cm in height. What is the magnification of the image?
- Assertion: When a concave mirror is held in water, its focal length will decrease.
Reason: The focal length of a concave mirror depends on the density the medium in which it is placed.
- State the laws of refraction of light. Explain the term absolute refractive index of a medium' and write an expression to relate it with the speed of light in vacuum.
- A fish under water is viewing obliquely a fisherman standing on the bank of lake. Does the man look taller or shorter?
- Three mirrors, one plane, one concave and one convex are lying on the table. Identify them without touching them or using any other apparatus or device?

(Chemistry)

- When Ag is exposed to air it gets a black coating of
(a) AgNO_3 (b) Ag_2S (c) Ag_2O (d) Ag_2CO_3
- Which of the reactions is used in black and white photography?
(a) Combination Reaction (b) Decomposition Reaction
(c) Displacement reaction (d) Oxidation reaction
- Zinc reacts with silver nitrate to form which compounds?
(a) $\text{Zn}(\text{NO}_3)_2 + \text{Ag}$ (c) $\text{ZnNO}_3 + \text{Ag}$
(b) $\text{AgNO}_3 + \text{Zn}(\text{NO}_3)_2$ (d) $\text{Ag} + \text{Zn}(\text{NO}_3)_3$
- Electrolysis of water is a decomposition reaction. The mole ratio of hydrogen and oxygen gases liberated during electrolysis of water is:
(a) 1:1 (b) 2:1 (c) 4:1 (d) 1:2
- A substance 'X' is used in white-washing and is obtained by heating limestone in the absence of air. Identify 'X'.
(a) CaOCl_2 (b) $\text{Ca}(\text{OH})_2$ (c) CaO (d) CaCO_3

6. Assertion (A): When HCl is added to zinc granules, a chemical reaction occurs.
Reason (R): Evolution of a gas indicates that the chemical reaction is taking place.
7. Assertion (A): Chemical reaction changes the physical and chemical properties of a substance
Reason (R): Chemical change involves a change in the chemical composition of matter, and a new substance is formed
8. Name the type of chemical reaction represented by the following equation:
(i) $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2$
(ii) $3\text{BaCl}_2 + \text{Al}_2(\text{SO}_4)_3 \rightarrow 2\text{AlCl}_3 + 3\text{BaSO}_4$
(iii) $\text{FeSO}_4 \xrightarrow{\text{Heat}} \text{Fe}_2\text{O}_3 + \text{SO}_2 + \text{SO}_3$
9. List four observations that help us to determine whether a chemical reaction has taken place.
10. Identify the substances that are oxidised and the substances that are reduced in the
(a) $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$ (b) $2\text{PbO} + \text{C} \rightarrow 2\text{Pb} + \text{CO}_2$

(Biology) Section- A

Multiple choice type questions Question-

- The process of digestion in humans is completed in
a) Esophagus b) Small intestine c) Stomach d) Large intestine
- Where are proteins first digested in the alimentary canal?
a) Small intestine b) Oesophagus c) Mouth d) Stomach
- Which of the following increases in muscle cells when they are lacking in oxygen?
a) Carbon dioxide b) Lactose c) Lactic acid d) Uric acid
- Coagulation of blood in a cut or wound is brought about by:
a) Plasma b) Platelets c) WBC d) RBC
- What are the various components of blood ? state their functions.
- State the differences between artery, vein and capillary.
- Draw a well diagram of nephron.
- Describe the structure of digestive system.
- Draw a diagram of the human heart and label its parts.
- What is meant by 'systolic pressure' and 'diastolic pressure'? What are their normal values?

Project Work

For even roll number: prepare a working model of Human heart.

For odd roll number: Prepare a working model of Excretory System.

Social Science:

- Q. 1. Mr. Y needs a loan for buying fertilizers to enhance crop production. He borrows loan from a bank as it is
- Cheap and affordable since rate of interest is lower
 - free from falling into a debt trap
 - going to ask him to sell his property
 - free of interest
- a) Only I b) Iii and iv c) i and ii d) Only ii

Arrange the following statements in sequential order based on the events that took place in India prior to independence.

- Purna Swaraj resolution was passed.
- Boycott of the Simon Commission
- Quit India Movement launched.
- Salt march and the beginning of the Civil Disobedience Movement.

Options:

a. iv, iii, ii, i

b. ii, i, iv,iii

c. i, iv, iii, ii

d. i, ii, iii, iv

Q.2 Under MGNREGA 2005, all those who are able to, and are in need of, work in rural areas are guaranteed 100 days of employment in a year by the government. If the government fails in its duty to provide employment, it will give unemployment allowances to the people. Identify the right.

a) Right to work

b) Right to Freedom

c) Right to livelihood

d) Right against Exploitation

Q.3. Consider the statements given below and choose the correct answer

Statement-I) In Globalization besides the movements of goods, services, investments and technology, there is one more way in which the countries can be connected.

Statement-II) Countries can be connected through the movement of people. between countries.

a. Statement i and ii are right.

b. Statement i, ii and iii are right.

c. Statement iii is right.

d. Only statement iv is right.

Q. 4 Who are ineligible to vote in the Presidential elections in India?

a. members of the state legislative assemblies

b. members of the state legislative council

c. members of the Rajya Sabha

d. members of the Lok Sabha

Q.5 "Everything would come to an end if the legislative, executive and judicial powers of government were to be exercised by the same person or authority." - Montesquieu, French jurist

Which of the following is the BEST explanation of this quote?

a. All work in a country will stop in the absence of power-sharing.

b. Separation of powers is needed to strengthen democracy.

c. Governments can only function if powers are distributed.

d. People cannot exist in a nation if powers are not divided.

Which of the following is NOT a public good?

a. electricity

b. stationery

c. education

d. healthcare

Q6. Which of the following gives the CORRECT explanation of Gross Domestic Product?

a. The value of final goods and services is added for secondary and tertiary sectors for one year.

b. The value of every good and service is added up to for all the three sectors for one year.

c. The value of final goods and services is added up for all the three sectors for one year.

d. The value of goods is added for the primary sector for one year.

Q.7 There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below:

Assertion (A): It is often said that political parties are facing a crisis.

Reason(R): They are very unpopular and the citizens are indifferent to political parties.

a. Both (A) and (R) are true and (R) is the correct explanation of A

b. Both(A) and (R) are true and R is the correct explanation of A.

c. (A) is correct but (R) is wrong

d. (A) is wrong but (R) is correct

Q. 8 Sharanya is making a list of natural resources for a project. She puts wind energy under one column and coal under another column. On what basis is she classifying the resources?

a. on the basis of origin

b. on the basis of ownership

c. on the basis of exhaustibility

d. on the basis of status of development

Q.9. What is common between primitive subsistence farming and intensive subsistence farming?

- a. Both require the use of modern machinery.
- b. Both are done on large tracts of land.
- c. Both require large amounts of credit.
- d. Both are labour-intensive.

Q.10 Kamal uses high yielding variety (HYV) seeds and chemical fertilizers to increase his wheat production. Which type of farming is Kamal practicing?

- a. intensive subsistence farming
- b. primitive subsistence farming
- c. commercial farming
- d. organic farming

OR

Which of the following statements is FALSE about the first half of 19th century Europe?

- a. There were parts of Europe where the aristocracy still enjoyed power.
- b. There was a migration of people from rural to urban areas.
- c. Women stepped outside their homes to work.
- d. The population decreased all over Europe.

Q.10. Why did Gandhiji start Non-Cooperation Movement? Explain.

Q. 11 Explain the measures and practices introduced by the French revolutionaries to create a sense of collective identity amongst the French people.

Q.12 "Like Germany, Italy too had a long history of political fragmentation". Explain.

Q.13 Suggest and explain any three ways to protect land from degradation in various states of India. 3

Q.14 Describe any three steps taken by the government towards decentralization in the year 1992.

Q.15 Describe any three federal features of Indian democracy.

Q.16 Explain the meaning and notion of 'Swaraj' as perceived by the plantation workers. How did they respond to the call of 'the Non – Cooperation movement'?

Q.17 Describe the role of mass communication in India.

Q.18 Describe the benefits of Roadways.

Q. 19. Suggest and explain any five ways to reform Political Parties in India. 5

Q.20 Power sharing is the essence of a democratic government.' Examine the statement.

Q.21 'Tertiary sector is playing a significant role in the development of Indian Economy'. Justify the Statement.

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Case study

Q.22 the given extract and answer the following questions.

In a democracy, we are most concerned with ensuring that people will have the right to choose their rulers and people will have control over the rulers. Whenever possible and hi necessary, citizens

should be able to participate in decision making, that affects them all. Therefore, the most basic outcome of democracy should be that it produces a government that is accountable to the citizens, and responsive to the needs and expectations of the citizens. Some people think that democracy produces less effective government. It is, of course, true that non-democratic rulers are very quick and efficient in decision making and implementation, whereas, democracy is based on the idea of

deliberation and negotiation. So, some delay is bound to take place. But, because it has followed procedures, its decisions may be both more acceptable to the people and more effective. Moreover, when citizens want to know if a decision was taken through the correct procedures, they can find this out. They have the right and the means to examine the process of decision making. This is known as transparency. This factor is often missing from a non-democratic government. There is another aspect in which democratic government is certainly better than its alternatives: democratic government is legitimate government. It may be slow, less efficient, not always very responsive, or clean. But a democratic government is people's own government.

Answer the following MCQs by choosing the most appropriate option

1 People's right to choose their own rulers is called as the –

- | | |
|----------------------|------------------------|
| A. Right to Initiate | B. Right to Plebiscite |
| C. Right to Vote | D. Right to Referendum |

2. Which of the following options helps in promoting transparency in the governance?

- | | |
|-------------------------------|-----------------------------------|
| A. Right to education | B. Right to information |
| C. Right against exploitation | D. Right to speech and expression |

3 _____ make/s the government legitimate.

- | | |
|-------------------------------|-----------------------|
| A. Credibility of politicians | B. People's movements |
| C. Free and fair elections | D. Holding of powers |

Map Skill.

Q.24 On the same outline map of India locate and label any 3 of the following with suitable symbols. 3

- | | |
|---|-----------------------------------|
| (i) A Coal mine in Tamil Nadu | (ii) A dam built on river Chenab. |
| (iii) A large natural major seaport located at Andhra Pradesh | |

Project File Topic:

1. Consumer Rights.(Group – 1 Roll no1 to 10)
2. Sustainable development (Group -2 Roll no11 to 20)
3. Water Resource conservation of Water . (Group-3 Roll no 21 to 30)
4. Life line of India. Transport of Railway in Growth of India. (Group-4 Roll no 31 to 39)

Computer:

1. Write and explain the strength of computer.
2. List different application area of computer.
3. How computer helps us in our routine life.
4. Explain following terms-CPU and Motherboard
5. What is role of operating system? Give the name of two operating system
6. Define server and workstation.
7. What does WWW stand for?
8. List four input and Output Devices.
9. Differentiate between RAM and ROM Memory.
10. **“RAM is volatile memory”** What is meaning of this statement? Explain two external storage devices.

