CLASS – 10

SUMMER HOLIDAYS HOMEWORK

English

1.Take any five passages and read them carefully and solve the questions based on the passage.

2. Book Review : Choose any two books and write the book review in 120-150 words in the given format.

1. The Author 2. The Content 3. Theme 4. Your favourite character

3.Write the summary of the following lessons.

1. Nelson Mandela: A Long Walk to Freedom
2. The Triumph of Surgery
3. His First Flight
4. The Dust of Snow
5. Fire and Ice

4. Prepare 15 MCQs from any 4 to 5 chapters. .(Not to be copied from Google)

5.Letter to Editor (any five)

1.1 You are Saurabh Srivastava, a resident of Defence Colony Bagdogra, Siliguri. Your colony is facing the severe problem of inadequate and contaminated water supply. You decide to express your views and make the authorities aware of the situation by writing a letter to the Editor of The Siliguri Times, Siliguri. Write Your letter in about 100-120 words.

1.2 Recently you read a report on increasing stress level among the younger generation and you are very disturbed with the scenario. You decide to write a letter to the Editor of a newspaper expressing your concern and also about some measures which can be adopted by the youth to overcome stress. On the basis of the ideas reflected in the daily life and your own understanding write the letter to the editor.

1.3 Recently, you got an opportunity to meet few courageous girls, who, despite serious opposition from their families, continue their education. This has made you feel both proud and concern about these girls and you decide to write a letter to the Editor of a newspaper emphasizing upon the need to promote girl child education. With your own ideas, write the letter to the Editor.

1.4 A survey reveals that most of our health related problems are due to our over fascination with modern gadgets like smart phones, lap tops, television and video games. The findings of the survey compel you to share your views on the issue and you decide to write a letter to the Editor of a newspaper. On the basis of your understanding write the letter.

1.5 You observe that most of your class mates bring fast food items as part of their school tiffin and even some of them regularly suffer from one disease or other but they keep on bringing fast food. You wish to make parents of such children aware of the harms of the fast food and

so you decide to write a letter to the Editor of a news daily. On the basis of your own understanding of the problem write the letter.

1.6 The number of tourists going to the hill stations is increasing. Time has led to their commercialization and its ill effects. More & more hotels, garbage effects on the life of the locals etc. Write a letter to the editor of The Times of India expressing your concern over the situation

1.7 You are Rizwan Ali, Resident of 456, Rajoti Garden, New Delhi. Write a letter to the Editor of any newspaper drawing the attention of the concerned authorities to the deteriorating law & order situation in the city.

Write 5 analytical paragraph.

Hindi

<u>कक्षा - दसवीं</u>

- क्षितिज पाठ्यपुस्तक के काव्य खण्ड से "सूरदास के पद" एवं तथा गद्य खण्ड से "नेताजी का चश्मा" के सभी प्रश्नोत्तर याद करें ।
- कवि तुलसीदास द्वारा रचित 'रामचरितमानस' पर अपने विचार लिखें।
- नेताजी सुभाष चंद्र बोस के व्यक्तित्व और कृतित्व पर एक प्रोजेक्ट सचित्र तैयार करें।
- सूरदास द्वारा रचित "सूरसागर" के बारे में आप क्या जानते हैं, संक्षेप में बताएं।
- रचना के आधार पर वाक्य के कितने भेद हैं? उनके नाम परिभाषा सहित लिखते हुए प्रत्येक के 10 10 उदाहरण लिखिए।
- क्रिया विशेषण की परिभाषा लिखते हुए, उसके चारों भेदों के पांच पांच उदाहरण लिखिए।
- निम्नलिखित विषय पर अनुच्छेद लिखिए-
    1. सोशल मीडिया : एक धीमा जहर-
       सोशल मीडिया का प्रभाव और दुष्प्रभाव, युवा पीढ़ी की ऊर्जा का नाश, अकेलापन और दबाव।
    2. बदल रहे हैं हमारे गांव-
       आधुनिक सुविधाओं से युक्त, सोच में परिवर्तन, शहरी आबोहवा का असर।
- आप कियान/कियारा हैं ।परीक्षा के दिनों में आपके इलाके में अलग-अलग प्रकार के आयोजनों में लाउडस्पीकर, डीजे आदि का प्रयोग हो रहा है जिससे बोर्ड की परीक्षा देने वाले विद्यार्थी और बड़े बुजुर्ग परेशान है। स्थानीय थाना प्रभारी को इस तरह के आयोजनों पर उचित कार्यवाही करने हेतु पत्र लिखिए।
- आप कियान/कियारा हैं । अपने घर में अक्सर देखा है कि आपकी मां सबके प्रति अपनी जिम्मेदारी निभाती हुई अपने ही स्वास्थ्य का ध्यान नहीं रख रही है। उन्हें पत्र लिखकर अपनी चिंता से अवगत कराते हुए अपने स्वास्थ्य का भी ध्यान रखने का अनुरोध कीजिए।
- आप दीपक कक्षा दसवीं के छात्र हैं तथा आपके परिवार की आर्थिक स्थिति अच्छी नहीं है अपने विद्यालय के प्रधानाचार्य को फीस माफ किए जाने का अनुरोध करते हुए उनकी मेल आईडी- principalkv@gmail.com पर एक ईमेल लिखिए।

एक प्रोजेक्ट फ़ाइल (पोर्टफोलियो) का निर्माण करें।

Sanskrit

1. द्वोपाठौ लेखनीयम स्मरणीयं च
2. व्याकरणस्य सर्वे बिंदव: लेखनीयम स्मरणीयं च |
3. 40 दिनानां प्रतिवेदनं लेखनीयम |
4. प्रतिदिनं समाचार पत्रम पठनीयम |
5. परियोजना कार्यं -पञ्च कथानां सग्रह करणीयम |
6. नूतन शिक्षा नीति विषये 10 बिंदव: लेखनीयम |
7. संस्कृत प्रतिज्ञा लेखनीयं स्मरणीयम् च |
8. संस्कृत प्रार्थना लेखनीयं स्मरणीयम् च |

Science

Q1. Write symbols of elements and their name in given your textbook (ch. 1and learn them)

Q2. Write the name of compounds and their name in given your test book . (ch.1)

Q3. What is a balanced chemical equation? Why should chemical equations be balanced?

Q4.Write the balanced equation for the following chemical reactions.

Hydrogen + Chlorine → Hydrogen chloride

(ii) Barium chloride + Aluminium sulphate → Barium sulphate + Aluminium chloride

(iii) Sodium + Water → Sodium hydroxide + Hydrogen

Q5. Write a balanced chemical equation with state symbols for the following reactions.

(i) Solutions of barium chloride and sodium sulphate in water react to give insoluble barium sulphate and the solution of sodium chloride.

(ii) Sodium hydroxide solution (in water) reacts with hydrochloric acid solution (in water) to produce sodium chloride solution and water.

Q6. Why are decomposition reactions called the opposite of combination reactions? Write equations for these reactions.

Q7.What is the difference between displacement and double displacement reactions? Write equations for these reactions.

Q.8. Write the balanced chemical equations for the following reactions and identify the type of reaction in each case.

Nitrogen gas is treated with hydrogen gas in the presence of a catalyst at 773K to form ammonia gas.

Ethene is burnt in the presence of oxygen to form carbon dioxide, water and releases heat and light.

Q9. Complete the missing components/variables given as x and y in the following reactions

$Pb(NO_3)_2 (aq) + 2KI(aq) \rightarrow PbI_2 (x) + 2KNO_3 (y)$

$Cu(s) + 2AgNO_3 (aq) \rightarrow Cu(NO_3)_2 (aq) + x(s)$

$Zn(s) + H_2SO_4 (aq) \rightarrow ZnSO_4 (x) + H_2 (y)$

$CaCO_3 (s) \rightarrow x\ CaO(s) + CO_2 (g)$

Q11. On heating blue coloured powder of copper (II) nitrate in a boiling tube, copper oxide (black), oxygen gas and a brown gas X is formed

Write a balanced chemical equation of the reaction.

Identity the brown gas X evolved.

Identity the type of reaction.

What could be the pH range of aqueous solution of the gas X?

Q12.Which among the following are physical or chemical changes?

(a)Evaporation of petrol

Burning of Liquefied Petroleum Gas (LPG)

Heating of an iron rod to red hot.

Curdling of milk

Sublimation of solid ammonium chloride

Q13. Name the following

(a) The process in plants that links light energy with chemical energy

(b) Organisms that can prepare their own food

(c) The cell organelle where photosynthesis occurs

(d) Cells that surround a stomatal pore

(e) Organisms that cannot prepare their own food

(f) An enzyme secreted from gastric glands in stomach that acts on proteins.

Q14. How do the guard cells regulate opening and closing of stomatal pores?

Q15. Differentiate between an autotroph and a heterotroph.

Q16. How does aerobic respiration differ from anaerobic respiration?

Make a Portfolio on the topic: MANAGEMNT OF NATURAL RESOURCES

IT WILL BE OF 5 MARKS.

Q17. Differentiate between an artery and a vein.

Q18. Why is the rate of breathing in aquatic organisms much faster than in terrestrial organisms?

Q19. Mention the major events during photosynthesis.

Q20. Draw labeled diagram of the following

(a) Human digestive system
(b)Human respiratory system
(c) Stomatal pore –Open and closed
Double circulation in humans

Mathematics

Theme - Statistics in Sports

1. Math Project:

- **Objective:** To analyze sports statistics.
- **Task:** Choose a sport and collect data on recent games or seasons (e.g., basketball player scores, cricket run rates). Use statistical methods to analyze player performance.
- **Report:** Summarize your findings with charts and graphs.

2. Art Integration:

Objective: To visualize statistical data.

Task: Create a poster or digital presentation that visually represents the sports data you analyzed.

Presentation: Showcase your visual representations and explain how they help in understanding the statistics better.

Chapters: Real Numbers, Polynomials, Pair of Linear Equations in Two Variables, Quadratic Equations

Chapter 1: Real Numbers

1.1 Fill in the blanks

a) The HCF of two numbers is the product of their LCM and _____.

b) The decimal expansion of a rational number is either _____ or _____.

1.2 Solve:

1) Find the HCF and LCM of 60 and 72 using the prime factorisation method.

2) Prove that √2 is irrational.

3) Find the decimal expansion of 7/12 and state whether it is terminating or non-terminating repeating.

Chapter 2: Polynomials

2.1 Very Short Answer:

1) Write the degree of the polynomial $3x^3 - x^2 + 5x - 6$.

2) If α and β are the zeroes of the polynomial $x^2 - 5x + 6$, find α + β and αβ.

2.2 Solve:

1) Divide $2x^3 + 3x^2 - 2x - 1$ by $x - 1$.

2) Find the zeroes of the quadratic polynomial $x^2 - 3x - 10$ and verify the relationship between the zeroes and the coefficients.

Chapter 3: Pair of Linear Equations in Two Variables

3.1 Very Short Answer:

1) Write the condition for the pair of linear equations $a_1x + b_1y = c_1$ and $a_2x + b_2y = c_2$ to have infinitely many solutions.

3.2 Solve:

1) Solve the pair of equations using substitution method:
$x + y = 5, x - y = 1$

2) Solve the pair of equations using elimination method:
$2x + 3y = 12, 4x - y = 5$

3) Solve the following word problem:
The sum of the digits of a two-digit number is 9. If 27 is subtracted from the number, its digits are reversed. Find the number.

Chapter 4: Quadratic Equations

4.1 Very Short Answer:

1) Write the quadratic equation whose roots are 2 and -3.

4.2 Solve:

1) Solve using factorisation: $x^2 - 7x + 12 = 0$

2) Solve using quadratic formula: $2x^2 - 4x - 3 = 0$

3) A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 48 minutes less. Find the speed of the train.

Social Science

Project: - 1 Make a project anyone of the following Topic:-

Consumer Awareness उपभोक्ता जागरूकता

OR

Social Issues सामाजिक मुद्दे

OR

Sustainable Development सतत विकास

Class X History

Chapter 1. The Rise of Nationalism in Europe

1) According to Ernst Renan, 'What is a Nation?
2) Write a brief note on a customs union or Zollverein.
3) What steps did the French revolutionaries take to create a sense of collective identity among the French people?
4) What changes did Napoleon introduce to make the administrative system more efficient in the territories ruled by him?
5) How did culture, music, dance and literature play an important role in creating the idea of nation in Europe?
6) Why did nationalist tension emerge in the Balkan?
7) Describe the congress of Vienna in 1815.
8) Who were Marianne and Germania? What was the impotence of the way in which they were portrayed/
9) Explain the process of Unification of Germany after Italy.
10) Describe the process of unification of Germany.

1) अर्नस्ट रेनन के अनुसार, 'राष्ट्र क्या है?
2) सीमा शुल्क संघ या ज़ोलवेरिन पर एक संक्षिप्त टिप्पणी लिखें।
3) फ्रांसीसी क्रांतिकारियों ने फ्रांसीसी लोगों के बीच सामूहिक पहचान की भावना पैदा करने के लिए क्या कदम उठाए?
4) नेपोलियन ने अपने द्वारा शासित क्षेत्रों में प्रशासनिक व्यवस्था को और अधिक कुशल बनाने के लिए क्या बदलाव किए?
5) यूरोप में राष्ट्र के विचार को बनाने में संस्कृति, संगीत, नृत्य और साहित्य ने कैसे महत्वपूर्ण भूमिका निभाई?
6) बाल्कन में राष्ट्रवादी तनाव क्यों उभरा?
7) 1815 में वियना की कांग्रेस का वर्णन करें।
8) मैरिएन और जर्मेनिया कौन थे? जिस तरह से उन्हें चित्रित किया गया था, उसका क्या महत्व था?
9) इटली के बाद जर्मनी के एकीकरण की प्रक्रिया की व्याख्या करें।
10) जर्मनी के एकीकरण की प्रक्रिया का वर्णन करें।

Geography

Chapter 1. Resources and development.

1. Do you think that resources are free gifts of nature as is assumed by many?
2. What is Agenda 21?
3. What are the differences between alluvial soil and Black soil?
4. What steps taken to soil conservation?
5. How have technical and economic development led to more consumption of resources?
6. Explain the major factors which are responsible for the formation of soil.
7. Describe the steps involved in resource planning.
8. Describe any three methods of controlling land degradation.

1) क्या आप मानते हैं कि संसाधन प्रकृति के मुफ़्त उपहार हैं जैसा कि कई लोग मानते हैं?
2) एजेंडा 21 क्या है?
3) जलोढ़ मिट्टी और काली मिट्टी के बीच क्या अंतर हैं?
4) मृदा संरक्षण के लिए क्या कदम उठाए गए हैं?
5) तकनीकी और आर्थिक विकास ने संसाधनों की अधिक खपत को कैसे बढ़ावा दिया है?
6) मिट्टी के निर्माण के लिए जिम्मेदार प्रमुख कारकों की व्याख्या करें।
7) संसाधन नियोजन में शामिल चरणों का वर्णन करें।
8) भूमि क्षरण को नियंत्रित करने के किसी भी तीन तरीकों का वर्णन करें।

Civic

Chapter 1.Power-sharing

1. Write ethnic composition in Belgium.
2. What was the Belgium model of power sharing?
3. How have Belgium and Sri Lanka deal with the question of power sharing differently?
4. Why power sharing is desirable?
5. What are the different forms of power sharing in modern democracies? Give an example of each of these .
6. State one prudential reason and one moral reason for power sharing with an example from the Indian context.
7. What do you know about Community government?
8. Define majoritarianism. Which country has lost its peace due to majoritarianism?
9. Mention any three provision of the Act which was passed in Sri- Lanka in 1956 to establish Sinhala supremacy
10. Who are Sri Lankan Tamils and Indian Tamils?

1) बेल्जियम में जातीय संरचना लिखें।

2) सत्ता के बंटवारे का बेल्जियम मॉडल क्या था?

3) बेल्जियम और श्रीलंका ने सत्ता के बंटवारे के सवाल को अलग-अलग तरीके से कैसे निपटाया है?

4) सत्ता का बंटवारा क्यों वांछनीय है?

5) आधुनिक लोकतंत्रों में सत्ता के बंटवारे के विभिन्न रूप क्या हैं? इनमें से प्रत्येक का एक उदाहरण दें।

6) भारतीय संदर्भ से एक उदाहरण के साथ सत्ता के बंटवारे के लिए एक विवेकपूर्ण कारण और एक नैतिक कारण बताएं।

7) सामुदायिक सरकार के बारे में आप क्या जानते हैं?

8) बहुसंख्यकवाद को परिभाषित करें। बहुसंख्यकवाद के कारण किस देश ने अपनी शांति खो दी है?

9) सिंहली वर्चस्व स्थापित करने के लिए 1956 में श्रीलंका में पारित अधिनियम के किन्हीं तीन प्रावधानों का उल्लेख करें

10) श्रीलंकाई तमिल और भारतीय तमिल कौन है

Artificial Intelligence

1. Communication Skills (Unit 1 – Advanced)

Tasks:

1. Prepare a chart/poster showing "Types of Communication (Verbal, Non-verbal, Visual, Written)" with examples.
2. Practice a role-play or write a script on “Effective communication in a job interview” (8–10 lines).

2 Self-Management Skills (Unit 2 – Advanced)

Tasks:

1. Write a short essay (100 words) on "Time Management Techniques for Students".
2. Design a goal-setting plan for your upcoming academic year. Include:
    - Academic goals
    - Personal goals
    - Health goals
3. List any 5 stress management techniques and explain how they can help students.

3. ICT Skills (Unit 3 – Advanced)

Tasks:

- Write a report on Cyber Safety Tips for teenagers (100-120 words).

4. Complete Notebook Work

- Ensure your AI notebook is up to date.
- Highlight key terms, important points, and diagrams.
- Complete any pending assignments or classwork.