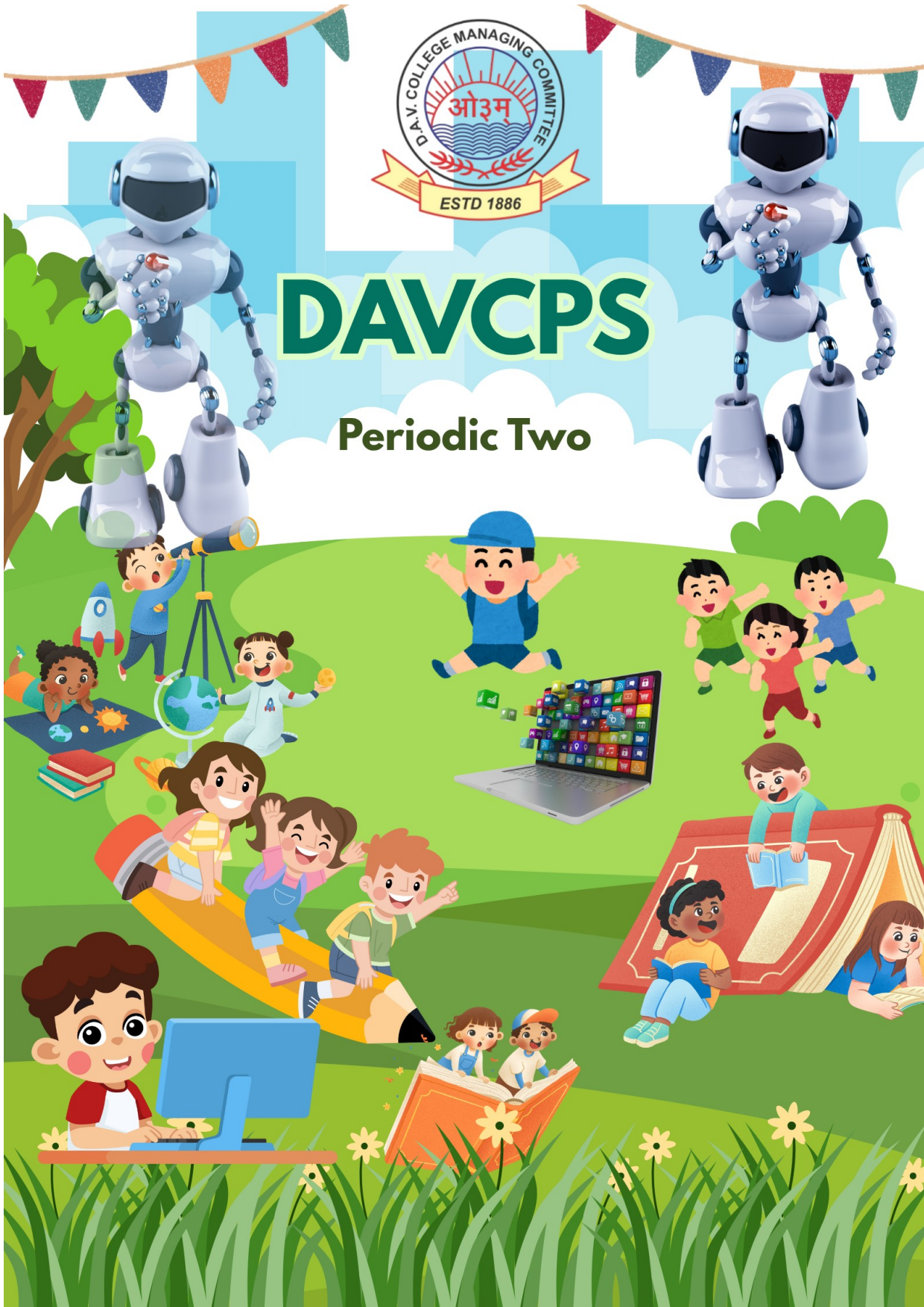


CLASS – 10TH



DAVCPS

Periodic Two



Subject : English

Q. 1 Imagine you and your friend are discussing the relevance of 'Fire and Ice' in today's world. Write a conversation highlighting how the poem reflects modern societal issues.

Q.2:How does the brevity of ' Fire and Ice' enhance its philosophical depth?

Q.3: Write a letter from the poet to a friend explaining how an ordinary moment with nature changed his perspective on life.

Q.4: What message does Robert Frost convey through ' Dust of Snow'? How is the message relevant to our lives?

Q.5: How does the poet use imagery to contrast the tiger's life in captivity with its life in the wild?

Q.6 : How does repetition enhance the emotional impact of the poem?

Q.7: Imagine you are Lencho. Write a diary entry expressing your feelings after receiving the money from God?

Q.8: Explain how irony is used in A Letter to God to enhance its message.

Q.9: Analyse how " A Letter to God" portrays human generosity through the character of postmaster.

Q.10: Mandela said, ' people must learn to hate, and if they can learn to hate, they can be taught to love.' Discuss.

Q.11. How does Nelson Mandela describe the transformation of South Africa on the day of his inauguration?

Q.12: Imagine you are Mrs. Pumphrey. Write a letter to the narrator thanking him for saving Tricki's life and reflecting on your mistakes as a pet owner.

Q.13. Write an article on ' The Role of Trust in Transforming Lives' inspired by " The Thief's Story."

Q.14: GAP FILLING QUESTIONS

1. Complete the following sentence Mrs. Pumphrey believed that Tricki's recovery was due to-----

2. Fill in the blank with ONE word: The narrator treated Tricki by focusing on a strict-----rather than medicines.

3. Complete the sentence appropriately: Mrs. Pumphrey sent eggs, wine, and brandy to-----Tricki's strength during his recovery.

4. Fill in the blank with ONE word: Tricki's transformation into a healthy dog was achieved through exercise and-----+

5. Choose the correct word to fill in the blank: The narrator described Tricki as "a bloated sausage because of his -----(greed/laziness).

6. Fill in the blank with ONE word: Mrs. Pumphrey's indulgence in feeding Tricki rich food shows her -----nature.

7. Complete the sentence appropriately. The narrator decided to hospitalize Tricki because he believed it was the only way to -----him.

8. Fill in the blank with ONE word: At the surgery, Tricki became an accepted member of the-----

9. Complete the sentence suitably: Mrs. Pumphrey called Tricki's recovery "a triumph of surgery" because she assumed it involved-----+

10. Fill in the blank with ONE word: The narrator avoided answering Mrs. Pumphrey's questions about Tricki's -----.



Q.15: GAP FILLING QUESTIONS

1. Fill in the blank with ONE word: Mandela described apartheid as an extraordinary human-----that lasted too long.
2. Complete the sentence : The playing of two national anthems during the inauguration symbolised-----+
3. Fill in the blank with ONE word: Mandela pledged to liberate his people from poverty deprivation , suffering and ----discrimination.
4. Complete the following by: Mandela believed that courage was not the absence of fear but the -----over it.
5. Complete the sentence suitably: Mandela expressed gratitude to international leaders for attending the inauguration and sharing in South Africa common victory for ---- peace and dignity.
6. Fill in the blank with ONE word: Mandela referred to his inaugurations day as a celebration of political -----+ for all South Africans.
7. Complete the following suitably: The decades of oppression and brutality unintentionally produced leaders of extraordinary courage, wisdom, and---+
8. Fill in the blank with ONE word: Mandela believed that no one is born hating another person because of their skin color, background, or-----

Q.16: Choose the option that applies correctly to the statements given below.

- (a) Both the assertion and the reason are true, and the reason is the correct explanation of the assertion.
- (b) Both the assertion and the reason are true, but the reason is not the correct explanation of assertion.
- (c) The assertion is true, but the reason is false.
- (d) The assertion is false but the reason is true.

1. Assertion: The playing of two national anthems during Mandela's inauguration symbolized division in South Africa
Reason: Blacks and whites sang different anthems because they did not know each other's lyrics

विषय-हिंदी

1. निम्नलिखित पठित पद्यांश पर आधारित बहुविकल्पी प्रश्नों के सर्वाधिक उपयुक्त विकल्प चुनकर लिखिए-
हमारे हरिहारिलकीलकरी।

मनक्रमबचननंद-नंदनउर, यहदृढकरिपकरी।

जागतसोवतस्वप्रदिवस-निसि, कान्ह-कान्हजकरी। सुनतजोगलागतहैऐसौ, ज्योंकरुईककरी।

सुतौब्याधिहमकोंलेआए, देखीसुनीनकरी। यहतौहलंतिनहिलैसौपी, जिनकेमनचकरी॥

(i) गोपियों ने योग के संदेश की तुलना किस से नहीं की-

(क) अनदेखी बीमारी से (ख) कड़वी ककड़ी से

(ग) हारिल पक्षी से (घ) उपरोक्त सभी से

(ii) योग का उपदेश किन लोगों के लिए उपयोगी है-

(क) स्थिरचित्त वाले लोगों के लिए

(ख) अस्थिरचित्त वाले लोगों के लिए

(ग) उद्धव के लिए

(घ) कृष्ण के लिए

(iii) मनक्रमबचनकान्ह-कान्हजरूरी अंश द्वारा क्या अभिव्यक्ति हुई है-

(क) कृष्ण के प्रति अटूट प्रेम का

(ख) गोपियों के प्रति अटूट प्रेम की

(ग) ईश्वर के प्रति अटूट प्रेम की

(घ) उद्धव के प्रति अटूट प्रेम की

(iv) तिनहीं ले सौ पों में तिनहि किन लोगों के लिए प्रयुक्त हुआ है-

(क) चंचल पशुओं के लिए

(ख) चंचल कृष्ण के लिए

(ग) चंचल मन वाली गोपियों के लिए

(घ) चंचल मन वाले लोगों के लिए

(v) गोपियों के प्रेम की कौन सी विशेषता प्रस्तुत पद में उजागर नहीं हुई है-

(क) एकेश्वरवाद (ख) प्रगाढ़ता (ग) समर्पण (घ) चंचलता

2. पाठ्यपुस्तक पर आधारित प्रश्नों के उत्तर दीजिए।

1. माता के आंचल में जो सुकून मिलता है और कहीं नहीं। कथन के संदर्भ में मेरी प्यारी मां पर चित्र सहित स्वयं रचित कविता लिखिए। (A4 size sheet)

2. आज कल बच्चे घरों में अकेले खेलते हैं, पर भोलानाथ और उसके साथी मिल-

जुलकर खेलते थे। इनमें से आप भावी जीवन के लिए किसे उपयुक्त मानते हैं और क्यों?

3. माताका आंचल पाठ में बच्चे वही खेलते हैं जो वे अपने आसपास बड़ों को करते हुए देखते हैं। लेकिन आधुनिक समय में बच्चे बाहर खेलने से ज्यादा टीवी को महत्व देते हैं। क्या घर-घर में टीवी द्वारा दिखाए जाने वाले दृश्य बच्चों पर को कुप्रभाव डाल रहे हैं? अपने विचार बताइए।

4. भोलानाथ व उसकी मित्रमंडली तरह-तरह के खेल खेलती थी। वह बारात वाला खेल भी खेलते थे। बच्चों द्वारा बारात कैसे निकाली जाती थी?

उनके द्वारा सजाई गई बारात तथा शादी के कार्यक्रम का वर्णन 'माताका आंचल' पाठ के आधार पर कीजिए।

5. बच्चों और बंदरों में एक सामान्य होती है कि वह कीमती सामानों को तोड़ने-फोड़ने का काम ज्यादा करते हैं। किसी ने सत्य ही कहा है कि लड़के और बंदर पराई पीर नहीं समझते क्या आप इस बात से सहमत हैं? स्पष्ट कीजिए।

3. व्यावहारिक व्याकरण

1. अलंकार के प्रत्येक भेदों के 5-5 उदाहरण लिखिए।

विज्ञापन लेखन-

2. 'लवली' पेंसिल बनाने वाली कंपनी के लिए विज्ञापन तैयार कीजिए।

3. 'रक्षक' जूते बनाने वाली कंपनी के लिए विज्ञापन तैयार कीजिए।

4. जल ही जीवन है। 'जल संरक्षण' पर एक विज्ञापन बनाइए।

4. रचनात्मक लेखन

नोट - अनुच्छेद लेखन उत्तर पुस्तिका (Fair) में कीजिए।

1. ग्लोबल वार्मिंग और जन जीवन
2. सिकुड़ते वन और बिगड़ता पर्यावरण
3. प्लास्टिक मुक्त भारत
4. महानगरीय भीड़भाड़ और मेट्रो

5. क्रियात्मक गतिविधि

राम-लक्ष्मण-परशुराम संवाद के पदों की चित्र सहित व्याख्या करते हुए एक कार्यक्रम परियोजना फाइल तैयार कीजिए।

संकेत बिंदु-

- तुलसीदास जी का जीवन परिचय
- पाठ का चित्रण
- पदों की व्याख्या
- लक्ष्मण और परशुराम के व्यवहार की विशेषताएं
- पाठ के उद्देश्य

नोट- छुट्टियों का सारा कार्य एक असाइनमेंट कॉपी में करें।

Subject – Mathematics

Chapter - 1 (Real Numbers)

Q. 1 : Explain whether the following numbers are prime or composite numbers.

(i) $7 \times 11 \times 26 + 13$

(ii) $(3 \times 5 \times 13 \times 46) + 23$

Q. 2 : Check whether 12^n can end with the digit 0 or 5, for any natural number n.

Q. 3 : Find the HCF and LCM of 260 and 910 by prime factorisation method.

Q. 4 : Find the LCM and HCF of the following integers by applying the prime factorisation method

(i) 40, 36, 126

(ii) 84, 90, 120

Q. 5 : If two positive integers p and q can be expressed as $p = a b^2$ and $q = a^3 b$ where a, b being prime numbers, find the LCM (p, q).

Q. 6 : Find the greatest possible length which can be used to measure exactly the length 7 m, 3 m 85 cm and 12 m 95 cm.

Q.7 : Find the least number that is divisible by all the numbers from 1 to 10 (both inclusive)

Q. 8 : Prove that $\frac{1}{\sqrt{5}}$ is an irrational number.

Chapter – 2 (Polynomials)

Q. 9 : Find the zeroes of the following quadratic polynomial and verify the relationship between the zeroes and the coefficients of the polynomial.

(i) $5x^2 - 8x - 4$

(ii) $x^2 - 20x + 91$

Q. 10 : If zeroes α and β of a polynomial $x^2 - 7x + k$ such that $\alpha - \beta = 1$ then find the value of k.

Q. 11 : If α and β are the zeroes of the polynomial $2y^2 + 7y + 5$, then find the value of $\alpha + \beta + \alpha\beta$.

Q. 12 : If α and β are the zeroes of the quadratic polynomial $f(x) = 3x^2 - 5x - 2$ then evaluate $\alpha^3 + \beta^3$.

Q. 13 : If α and β are the zeroes of $4x^2 + 3x + 7$ then find the value of $\frac{1}{\alpha} + \frac{1}{\beta}$.

Q. 14 : If one zero of the polynomial $3x^2 - 8x + 2k + 1$ is seven times the other, then find the zeroes and the value of k.

Q. 15 : If α and β are the zeroes of the quadratic polynomial $f(x) = x^2 + x - 2$ then find a quadratic polynomial whose zeroes are $2\alpha + 1$ and $2\beta + 1$.

Chapter – 3(Pair of linear equations in two variables)

Q. 16 : Find the value of k, for which system of equations $kx + 3y = 3$ and $12x + ky = 6$ represent parallel lines.

Q. 17 : Find the values of p and q for which the following system of equations has infinitely many solutions $(2p - 1)x + 3y = 5$; $3x + (q - 1)y = 2$

Q. 18 : Two people are 16 km apart on a straight road. They start walking at the same time. If they walk towards each other with different speeds, they will meet in 2 h. Had they walked in the same direction with same speeds as before, they would have met in 8 h. Find their walking speeds.

Q. 19 : The area of a rectangle gets reduced by 80 sq units, if its length is reduced by 5 units and the breadth is increased by 2 units. If we increase the length by 10 units and decrease the breadth by 5 units, then the area is increased by 50 sq units. Find the length and the breadth of the rectangle.

Q. 20 : The sum of the digits of a two-digit number is 6. Also, 17 times this number is 5 times of the number obtained by reversing the order of digits. Find the number

Q. 21 : 5 yr ago, Amit was thrice as old as Baljeet. 10 yr hence, Amit shall be twice as old as Baljeet. What are their present ages?

Q. 22 : Sheena went to a bank to withdraw ₹1000 and asked the cashier to give her 100 and ₹ 50 notes only. She got 14 notes in all. Find how many notes of ₹ 100 and ₹50 she received?

Q. 23 : Solve graphically, the pair of equations $2x + y = 6$ and $2x - y + 2 = 0$. Find the ratio of the areas of the two triangles formed by the lines representing these equations with X-axis and the lines with Y-axis.

Chapter -4(Quadratic Equations)

Q. 24 : For what value(s) of a a quadratic equation $30ax^2 - 6x + 1 = 0$ has no real roots.

Q. 25 : Find the least positive value of k for which $x^2 + kx + 16 = 0$ has real roots.

Q. 26 : A plane left 30 min late than its scheduled time and in order to reach the destination 1500 km away in time, it had to increase its speed by 100 km/h from the usual speed. Find its usual speed.

Q. 27 : 7 yr ago, Varun's age was 5 times the square of Swati's age. 3 yr hence, Swati's age will be $\frac{2}{5}$ th of Varun's age. Find their present ages.

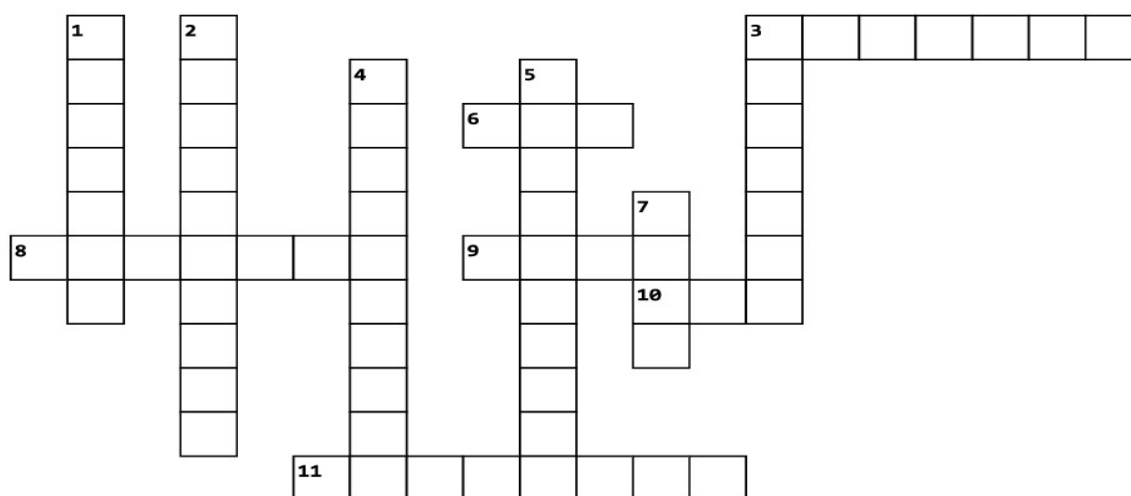
Q. 28 : Three consecutive natural numbers are such that the square of the middle number exceeds the difference of the squares of other two by 60. Find the numbers.

Q. 29 : The difference of two numbers is 4. If the difference of their reciprocals is $\frac{4}{21}$ then find the two numbers.

Q. 30 : The sum of the squares of three positive numbers that are consecutive multiples of 5 is 725. Find the three numbers.

Subject: Science (Physics)

1. A tree is located at infinite distance from a concave mirror of focal length f . The distance of the image from the concave mirror.
2. An object of height 1.2 m is placed before a concave mirror of focal length 20 cm so that a real image is formed at a distance of 60 cm from it. Find the position of an object. What will be the height of the image formed?
3. A concave mirror produces a real image of size 3 times of the object at a distance of 30 cm from the pole of the mirror. Find the position of the object.
4. State three uses of a concave mirror.
5. State two uses of a convex mirror.
6. Which lens acts as a converging lens?
7. Draw a ray diagram to show refraction through a glass slab
8. Write three differences between real image and virtual image
9. State the Laws of Refraction? If the speed of light in vacuum is $3 \times 10^8 \text{ ms}^{-1}$, find the absolute refractive index of a medium in which light travels with a speed of $1.4 \times 10^8 \text{ ms}^{-1}$?
10. Absolute Refractive Index of water is 1.33. What is the refractive index of air with respect to water?



Across

3. total internal reflection is observed in
6. out of seven colors of white light, which color has maximum wavelength?
8. the power of a lens is -4.0D . what is the nature of the lens?
9. an image formed in a spherical mirror has magnification -2 . Is image real or virtual?
10. light travel fastest
11. focal length of plane mirror is

Down

1. the order of colors arranged in spectrum of white light is expressed as
2. when we insert a coin to a glass half filled slightly which is due
3. the unit power of lens is
4. the phenomenon of spreading of light into its constituents is called as
5. the bouncing back of the ray in the same medium is called as
7. which one of the following materials cannot be used to make a lens?

Chemistry

1. Theme - "Chemistry in everyday life"

You can choose any one project.

i) Make homemade pH indicator using red cabbage juice or turmeric

ii) Make invisible ink with lemon juice -to write secret messages and reveal them with heat.

iii) Rusting and its prevention (try oil ,paint or saltwater on nails.)

Document: material used, procedure, observations, explanation of chemistry behind the reaction, photos or video link (optional but appreciated)

2. Chemistry art and craft

Objective: Combine art with science

Task: Choose one creative project

i) Design "Periodic table tree"-Each group of element is a branch (alkali, noble gases ,halogens etc) Add leaves with element symbols **OR**

Make a 'Molecule mobile'

Create 3D models of water ,methane ,carbon dioxide using beads, clay or straws and hang them on strings to make a mobile.

3. **Design Chemistry Board game or card game** (example periodic table based snakes and ladders or reaction match -up game)

4. Chemistry detective (Research project)

Objective: Explore real world chemical applications

Choose one topic and write a 1 to 2 page research summary with images.

i) chemistry in cooking

ii) how soaps and detergents work

iii) chemistry behind fireworks

iv) role of chemistry in medicine

Bonus tip: Use of scrapbook or create a mini digital slideshow.

Submission Guidelines

Present all parts in a neatly organized file (handwritten or digital).

Add a cover page with your name, roll number, and a creative title.

Use diagrams, colors, and creativity to make your file visually appealing.

Special Rewards

Best Homework File: Certificate + Small Prize

Most Creative Project

Best Experiment Video

Funniest Chemistry mic

Biology

Make models on

Stomata opening and closure (roll no 1 to 10)

Microvilli (11 to 20)

Amoeba nutrition (21 to 30)

Anatomy of leaf (31 to 40)

Make project on

Autotrophic nutrition(roll no 1 to 5)

Role of water in stomatal regulation (6 to 10)

Heterotrophic nutritions(11 to 15)

Alimentary canal (16 to 20)

Role of enzymes in digestion (21 to 25)

Glucose breakdown pathways (26 to 30)

Amoebic nutrition (31 to 35)

Dental carries and tobacco smoking (36 to 40)

SOCIAL SCIENCE

GENERAL INSTRUCTIONS:

- 1.Prepare both projects in separate files with a decorative cover page.
- 2.The name of the student, subject, and topic of the project should be mentioned on the first page. They should be handwritten.
- 3.File must contain 15 to 20 pages.
- 4.Paste pictures and mention the relevant data also.

1) PROJECT WORK

Every student has to compulsorily undertake any one topic for project file and PPT presentation on the following topics:

- **Consumer Awareness** Or
- **Social Issues** Or
- **Sustainable Development**

List of social issues (choose any one)

- 1.Poverty
- 2.Unemployment
- 3.Corruption
4. Population explosion
- 5.Communal violence
- 6.Child abuse & child labour
- 7.Domestic violence
- 8.Gender inequality
9. Caste system
10. Pollution

2) PROJECT WORK

Prepare a file for comparative analysis of Haryana and Telangana on the following points.

Folk Dances
Occupations
Famous Temples
Traditional Folk Arts

Activity

1. Prepre a timeline chart of Ch- Nationalism in Europe
2. Compare the Map of 1947 and 2025



Assignment History

Ch-1 Nationalism in Europe

1. Briefly trace the process of German unification.
2. What changes did Napoleon introduce to make the administrative system more efficient in the territories ruled by him? Or Explain any three features of Napoleon code.
3. When and why was the Zollverein formed?
4. Explain the process of unification of Italy.
5. What was Mazzini's contribution in creating a nation-state?
6. Who were Marianne and Germania? What was the importance of the way in which they were portrayed?
7. Describe in brief the process by which the British nation came into existence.
8. How has the French artist, Frederic Sorrieu, visualized in his first print of a series of four prints his dream of a world made up of 'democratic and social Republics'?

Economics

L-1 Development

1. Mention any four characteristics of development.
2. What is the main criterion used by the World Bank in classifying different countries?
3. "Money in your pocket cannot buy all the goods and services that one needs." With reference to the given statement, mention any four things which money cannot buy for an individual.
4. Why is the issue of sustainability important for development?
5. Mention any two development goals of the following people:
Landless rural labour
A girl
a rich farmer
6. "Different people have different goals" Support the statement with examples.

L-2 Sectors of the Indian Economy

1. What are the treasury activities? Explain with examples.
2. Distinguish between organized and the unorganized sector.
3. Distinguish between the public and the private sector.
4. What are the objectives of MGNREGA 2005?
5. What steps should be taken to create more employment? Explain.
6. Why is the tertiary sector becoming so important in India? Give at least four reasons.
7. Distinguish between primary, secondary and tertiary sector.
8. How does the public sector contribute to the economic development of the nation? Explain.



Thankyou

*Enjoy your
Holidays*