DELHI PUBLIC SCHOOL
SAIL TOWNSHIP, RANCHI
SUMMER ASSIGNMENT   (2022-23)

Class - X   **Subject – English**

Reading Section

1. Read the following passage and answer the questions that follow:

The news paper is one of the significant signs of modem civilization. It is the most popular form of reading in the present times because it interests all sorts of people. It is full of political, news, sports and commercial news, as well as articles by well-known writers. A newspaper keeps us both entertained and informed.

In these days of democracy, public opinion rules everywhere. No government can long withstand the pressure of a strong public opinion. It is, therefore, quite clear that the press controls public opinion, and public opinion in turn controls the government, ultimately the press controls the government. It acts as an interpreter between the government and the people and brings the rulers and the ruled together.

The press also acts as a public court. All evils, corruptions, vices, scandals, etc. are given publicity and brought forth to the public through the medium of newspapers. The pressure of public opinion can be brought to bear upon the doers of evil and injustice. The oppressed and the downtrodden may easily demand justice at the bar of public opinion.

Again, to build a nation, it becomes necessary to spread ideas of liberty and independence among the masses. The real freedom of a country is never possible without the upliftment of the corners people. Politicians as well as economists, can circulate their ideas through newspapers, as they reach the most distant corners in the shortest possible time. Newspapers also tell people what their rights are and teach them how they can protect and exercise their rights. By placing before the readers new view-points every day, they stimulate thought and increase the power of independent thinking. Thus, newspapers contribute to the development of knowledge and their educative influence is indeed immense.

The advantages of having a strong, independent and honest press far outweighs the evils practiced by a few cheap, irresponsible newspapers. The newspaper is one of the greatest blessing of civilization and journalism and therefore, it should be allowed to have the maximum amount of freedom possible.

Restriction on newspaper should be as few as possible in order to ensure the healthy growth of a nation. In the present stage of developing civilization, newspapers are an absolute necessity and give freedom of expression, they are capable of doing immense good to society, the country and the world. Thus, the freedom of Press is the requisite for freedom of the people.

(A) Answer the following questions in about 30-40 words :

(a) Give three reasons to show the importance of the newspaper.
(b) How does public opinion rule everywhere in case of democracy ?
(c) Why is the freedom of the press essential ?
(d) When can real freedom come to existence ?

(B) Do as directed:

(a) Which word in the passage means 'crushed' ?
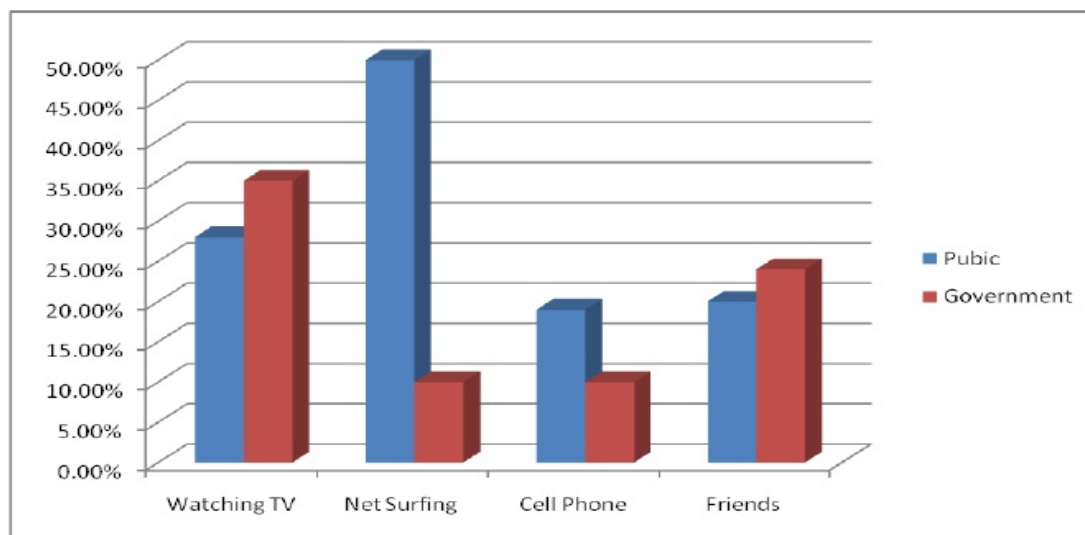(i) spoiled (ii) trodden (iii) rotten (iv) untidy

(b) Find out the antonym of 'discourage' from the passage :
(i) encourage (ii) secure (iii) stimulate (iv) inspire

(c) Find the synonym of 'colossal' from the passage :
(i) immense (ii) small (iii) beautiful (iv) big

(d) Find out the antonym of 'restriction' from the passage :
(i) slavery (ii) courage (iii) influence (iv) freedom

Writing and Grammar Section

2.Study the chart given below, which is the result of the survey conducted in the public schools and government schools of Vadodara. This depicts the types of activities the teenagers (Age 13- 19 years are involved during their leisure time). Write an analytical paragraph describing the bar graph in 100-150 words.

3. You have seen many children under the age of 18 driving private vehicles. A lot of them have also encountered accidents. Write a letter to the editor of a local newspaper addressing the situation. Also give some ways to tackle the situation.

4. Fill in the blanks with appropriate modals:

a. We………………….. pay attention to our studies. (ought to, shall)

b. You………………………… not litter the classroom. (should, could)

c. I …………………………talk to you immediately. (need to, ought to)

d. They will………………… clear all the doubts before the starting of meeting. (have to, had to)

e. He………………….. take those medicines to get better soon. (has to, had to)

5. Fill in the blanks with suitable determiners.

a. ……………. books are missing from the library. (Any, Some)

b. She has not solved……………. sums, (many, any)

c. This book is mine but………………. is yours, (that, any)

d. ……………. boys have done their work. (That, These)

e. He didn't make………… progress, (much, many)

6. Tenses-Complete the following sentences using the correct form of the verb given in brackets.

a. The thief .... (catch) red-handed.

b. A bomb scare .... (delay) the flight by almost two hours.

c. The stadium .... (reverberate) with dance, music and drama as troupes from different parts of the country .... (present) a panorama of colour and costume.

d. I .... (spend) the whole day yesterday in bed.

e. Students from different parts of the country .... (participate) in the program yesterday.

Literature Section

7. Read the extract given below and answer the questions that follow:

The way a crow
Shook down on me
The dust of snow
From a hemlock tree
Has given my heart
A change of mood
And saved some part
Of a day I had rued.

i) Of the many symbols the hemlock tree represents, choose the one that Frost drew upon in all likelihood, for this poem.
Symbol of
a) longevity.
b) togetherness.
c) healing.
d) protection.

ii) Choose the option that lists the possible feelings of the poet prior to the experience shared in the poem.
1) reassured
2) disappointed
3) curious
4) demotivated
5) thankful
6) disheartened
7) impulsive
a) 1, 3 &7
b) 2, 4 & 6
c) 5 & 7
d) 1 & 3

iii) Identify the option that DOES NOT use the word 'rue' correctly.
a) The film was a disaster, and he rued his decision to act in it.
b) I am sure she rued the day she listened to a fortune-teller.
c) It wasn't long before I rued my disobedience and my deceit.
d) Others finally rue the one who is dishonest and heartless.

8. Answer the following questions in 30-40 words:

i) Who or what did Lencho have faith in? What did he do?
ii) What made the woman in the Control Centre look at the narrator strangely?
iii) Why does Mrs Pumphrey think the dog's recovery is 'a triumph of surgery'?
iv) For Frost, what do 'fire' and 'ice' stand for?

9. Answer the following questions in about 120 words:

i) Would you agree that the "depths of oppression" create "heights of character"? How does Mandela illustrate this? Can you add your own examples to this argument ?
ii) Describe the narrator's experience as he flew the aeroplane into the storm.

Class -X   **Subject – Mathematics**

1. Prove that $\sqrt{3} + \sqrt{5}$ is irrational.

2. Show that 12^n can not end with the digit 0 or 5 for any natural number n.

3. Write the denominator of the rational number $\frac{257}{5000}$ in the form of $2^m.5^n$, where m,n are non negative integers. Hence write its decimal expansion, without actual division.

4. 105 goats, 140 donkeys and 175 cows have to be taken across a river. There is only one boat which will have to make many trips in order to do so. The boatsman insists that he will take same numbers of animals in each trip and they have to be of the same kind. Find
   (i) the minimum number of trips required to transport all animals
   (ii) the maximum number of animals transported in each trip.

5. Find the greatest number which divides 2011 and 2623 leaving remainders 9 and 5 respectively.

6. Find the polynomial whose zeroes are double of zeroes of polynomial x^2-4x+3.

7. If α and $\frac{1}{\alpha}$ are zeroes of polynomial $4x^2$-2x +(k-4) , then find the value of k.

8. If one zero of polynomial $3x^2 - 8x + 2k + 1\ is\ seven\ times\ of\ other$, find the value of k.

9. Let α and β be the zeroes of polynomial $2x^2$+5x+k. Find the value of k if $\alpha^2+\beta^2+\alpha\beta=\frac{21}{4}$.

10. What must be added to f(x)=$4x^4 + 2x^3 - 2x^2 + x - 1$ so that the resulting polynomial is exactly divisible by g(x)=$x^2 + 2x - 3$?

11. If α and β are the zeroes of a quadratic polynomial such that α + β=24 , α-β=8. Find the quadratic polynomial having α and β as its zero.

12. Find all zeroes of the polynomial $2x^4 - 9x^3 + 5x^2 + 3x - 1$, if two of its zeroes are 2+$\sqrt{3}$ and 2-$\sqrt{3}$.

13. The co-ordinates of mid point of the line joining the points (3p , 4) and (-2 , 2q) is (5 , p) . Find the value of p and q.

14. Find the ratio in which the line 3x+y-9=0 divide the line segment joining the points (1,3) and (2,7).

15. Find the distance between the points A($5\cos\theta$, 0) and B(0, $5\sin\theta$).

16. Two vertices of a triangle are (1, 2) and (3, 5). If the centriod of the triangle is at origin, find co-ordinates of third vertex.

17. If the distance of P(x, y) from A(5, 1) and B(-1, 5) are equal, prove that 3x=2y.

18. Show that the points (1, -1), (5, 2) and (9, 5) are collinear.

19. Three consecutive vertices of a parallelogram are (-2,-1), (1,0) and (4,3). Find the coordinates of the fourth vertex.

20. Prove that A(4,3), B(6,4), C(5,6) and D(3,5) are the angular points of a square.

21. Solve for x and y : 99x+101y= 499

$$101x+99y= 501$$

22. Solve for x and y: $\dfrac{x}{a} + \dfrac{y}{b} = a + b$

$$\dfrac{x}{a^2} + \dfrac{y}{b^2} = 2$$

23. Find the value of k, so that the following system of equations has no solution:

x + 5y = 0; kx + 10y = 0.

24. Find the value of a and b for which each of the following systems of linear equations has an infinite number of solutions:

2ax + 3ay =6, 6x + 9y =18

25. Solve each of the following system of linear equations graphically:

x +2y = 6, 2x+ 3y =12

26. The sum of the digits of a two digit number is 12. The number obtained by interchanging the two digits exceeds the given number by 18. Find the number.

27. Seven times a two-digit number is equal to four times the number obtained by reversing the order of its digit. If the difference between the digits is 3, then find the number.

28. Five years ago, Nuri was thrice as old as Sonu. Ten years later, Nuri will be twice as old as Sonu. How old are Nuri and Sonu?

29. Ritu can row downstream 20 km in 2 hours, and upstream 4 km in 2 hours. Find her speed of rowing in still water and the speed of the current.

30. The ratio of incomes of two persons is 9 : 7 and the ratio of their expenditures is 4 : 3. If each of them manages to save Rs. 2000 per month, find their monthly incomes.

Class - X   **Subject – Hindi**

प्रश्न 1. निम्नलिखित प्रश्नों के उत्तर लिखें।
   क) बड़े भाई साहब को अपन मन की इच्छाएँ क्यों दबानी पड़ती थी?
   ख) मीराबाई अपने आराध्य श्याम की चाकरी क्यों करना चाहती हैं?
   ग) सुभाष बाबू के जुलूस में स्त्री समाज की क्या भूमिका थी?
   घ) 'समाज में रिश्तों की क्या अहमियत हैं – हरिहर काका पाठ के आधार पर उत्तर दें।

प्रश्न 2. क) निम्नलिखित मुहावरे का प्रयोग वाक्यों में करें।
                     आवाज उठाना
                     गाँठ बाँधना
                     एड़ी–चोटी का जोर लगाना
                     आड़े हाथों लेना
                     बाट जोहना

   ख) निम्नलिखित वाक्यों के रेखांकित पदबंधों के भेद बताएँ।
   i) विद्यार्थी <u>पढ़कर सो गया है</u>।
   ii) <u>शेर की तरह दहाड़ने वाले</u> तुम काँप क्यों रहे हो?
   iii) <u>पिछले दिनों की अपेक्षा</u> आज सर्दी अधिक है।
   iv) <u>बराबर के कमरे में रहने वाला आदमी</u> छत से गिर पड़ा।

   ग) निम्नलिखित समस्त पदों का विग्रह कीजिए और समास का नाम बताइए।
            तुलसीकृत, नीलकमल, शोकाकुल, नीलकंठ, दशानन

   घ) निर्देशानुसार वाक्यों को रूपांतरित करें।
   i) प्रातः काल हुआ और चिड़ियाँ चहचहाने लगीं। (सरल वाक्य में)
   ii) मैंने एक दुबले पतले लड़के को देखा। (संयुक्त वाक्य में)
   iii) गाड़ी के स्टेशन पर रूकते ही सवारियाँ चढ़ने लगीं। (मिश्र वाक्य में)

प्रश्न 3. होली के अवसर पर आपके मोहल्ले में होली मिलन समारोह का आयोजन किया जा रहा है। सभी मोहल्ले वासियों को समय एवं स्थान की जानकारी देते हुए 40–50 शब्दों में सूचना लिखें।

_____

DELHI PUBLIC SCHOOL
SAIL TOWNSHIP, RANCHI
SUMMER ASSIGNMENT (2022-23)

Class - X   **Subject – Sanskrit**

प्रश्न 1. विकल्पेभ्यः उचितम् उत्तरतं चिनुत –
(संधि) मम मित्रम् अत्र <u>दूरादागच्छत्</u>।
(क) दूरात् + आगच्छत्   (ख) दूरात् + गच्छत्   (ग) दूरा + आगच्छत्   (घ) दूर + दागच्छत्

प्रश्न 2. (संधि) वसुन्धरा एव <u>जगन्माता</u> कथ्यते।
(क) जग + नमाता   (ख) जगति + माता   (ग) जगत् + माता   (घ) जगन् + माता

प्रश्न 3. (संधि) एषः छात्रः निः + तुरः अस्ति।
(क) निर्तुरः   (ख) निक्तुर   (ग) निश्ठुरः   (घ) निष्ठुरः

प्रश्न 4. (समास) प्रदूषणेन धरा <u>समलम्</u> अभवत्।
(क) मलेन सहितम्   (ख) मलस्य पश्चात्   (ग) मलस्य सह   (घ) मलस्य योग्यम्

प्रश्न 5. (समास) <u>हरि च हरः च</u> गच्छतः।
(क) हरिहराः   (ख) हरिहरौ   (ग) हरीहरम्   (घ) हरहरी

प्रश्न 6. (समास) <u>पीतम् अंबरम् यस्य तम्</u> विष्णुं अहम् नमामि।
(क) पीताम्बरस्य   (ख) पीताम्बरः   (ग) पीताम्बर   (घ) पीताम्बरम्

प्रश्न 7. (प्रत्ययः) तव <u>अनुज + टाप्</u> नाम किम् अस्ति।
(क) अनुजायाः   (ख) अनुजा   (ग) अनुजटाप्   (घ) अनुजाम्

प्रश्न 8. (प्रत्यय) माता अवदत् – <u>आयुः + मतुष्</u> भवत यूयम्।
(क) आयुष्मान्   (ख) आयुष्मन्तः   (ग) आयुःमत्   (घ) आयुर्वन्त

प्रश्न 9. (प्रत्यय) <u>लघुताम्</u> त्यज।
(क) लघु + तल्   (ख) लघु + त्व   (ग) लघुत + टाप्   (घ) लघु + ताम्

प्रश्न 10. (वाच्य) त्वया अधुना कुत्र ——— ?
(क) गच्छसि   (ख) गच्छयसे   (ग) गच्छति   (घ) गम्यते

प्रश्न 11. (वाच्य) ——— तु अधुना फलानि क्रेतुम् आपणं गच्छामि।
(क) मया   (ख) अहम्   (ग) त्वया   (घ) त्वम्

प्रश्न 12. (वाच्य) किम् तुभ्यम् ——— अतीव रोचन्ते।
(क) फलेन   (ख) फलम्   (ग) फलाः   (घ) फलानि

प्रश्न 13. (अव्यय) विद्यालये ——— अवकाशः आसीत्।
(क) इदानीम्   (ख) अधुना   (ग) ह्यः   (घ) श्वः

प्रश्न 14. अधोलिखितं गद्यांशं पठित्वा प्रश्नान् उत्तरत –

षट् कारणानि श्रियं विनाशयन्ति। प्रथमं कारणमस्ति असत्यम्। यः नरः असत्यं वदति, तस्य कोऽपि जनः विश्वासं न करोति। उक्तम् च – 'सत्यं ब्रूयात्, प्रियं ब्रूयात्, न ब्रूयात् सत्यमप्रियम्।' निष्ठुरता अस्ति द्वितीयं कारणम्। कदापि केनापि सह निष्ठुरता (निर्दयता) न उचिता। सदैव जगति सर्वे सह करुणा, दया नम्रता च करणीयाः। तृतीयं कारणम् अस्ति कृतघ्नता। जीवने अनेके जनाः अस्मान् उपकुर्वन्ति। प्रायः जनाः उपकारिणं विस्मरन्ति, प्रत्युपकारं न कुर्वन्ति। एतादृशः स्वभावः कृतघ्नता इति उच्यते। आलस्यम् अपरः महान् दोषः, 'आलस्यं हि मनुष्याणां शरीरस्थः महारिपुः'। अहङ्कारः मनुष्यस्य मतिं नाशयति। अहङ्कारी मनुष्यः सर्वदा आत्मप्रशंसाम् एव करोति। न कदापि कस्यचित् उपकारं करोति। व्यसनानि अपि श्रियं हरन्ति। ये मद्यपानं कुर्वन्ति तेषाम् आत्मिकबलम्, बुद्धिबलं शारीरिकबलं च नश्यन्ति। अतः बुद्धिमान् एतान् दोषान् सर्वथा त्यजेत्।

प्रश्नाः

I. एकपदेन उत्तरत। (एक पद में उत्तर दीजिए।)
(i) कीदृशं सत्यं न ब्रूयात्?   (ii) मनुष्याणां शरीरस्थः महारिषुः कः?

II. पूर्णवाक्येन उत्तरत। (पूर्ण वाक्य में उत्तर दीजिए।)
(i) अहङ्कारी मनुष्यः किं करोति?   (ii) तृतीयं कारणं किम् उच्यते?

III. भाषिककार्यम्। (भाषा संबंधी कार्य)
(i) 'नाशयति' इति क्रियापदस्य कर्तृपदं किम्?
(क) अहङ्कारः   (ख) गर्वम्   (ग) धनम्   (घ) बलम्

(ii) 'स्मरन्ति' इति क्रियापदस्य किं विपर्ययपदम् अत्र प्रयुक्तम्?
(क) उपकुर्वन्ति   (ख) अनुस्मरन्ति   (ग) विस्मरन्ति   (घ) कुर्वन्ति

(iii) 'षट्' इति पदं कस्य विशेषणम्?
(क) कारणस्य   (ख) कारणाम्   (ग) अहङारस्य   (घ) श्रियस्य

IV. अस्य अनुच्छेदस्य कृते समुचितं शीर्षकं लिखत।

_____

DELHI PUBLIC SCHOOL
SAIL TOWNSHIP, RANCHI
SUMMER ASSIGNMENT (2022-23)

Class - X   **Subject – Science**

PHYSICS

1. How is the refractive index of a medium related to the speed of light? Obtain an expression for the refractive index of a medium with respect to another in terms of speed of light in these two media.

2. If the refractive index of water is 4/3 and that of glass is 3/2. What will be the refractive index of glass w.r.t. water?

3. Draw ray diagrams showing the image formation by a concave mirror when an object is placed:-

   (a) between pole and focus of the mirror

   (b) between focus and centre of curvature of the mirror

   (c) at the centre of curvature of the mirror

4. Write laws of refraction. Explain the same with the help of a ray diagram, when a ray of light passes through a rectangular glass slab.

5. Size of the image of an object by a mirror having a focal length of 20 cm is observed to be reduced to 1/3rd of its size. At what distance the object has been placed from the mirror? What is the nature of the image and the mirror?

6. The image of an object placed in front of a concave mirror of focal length 12 cm is formed at a point which is 10 cm more distant from the mirror than the object. Find the magnification of the image so formed.

7. A 4.5 cm needle is placed 12 cm away from a convex mirror of focal length 15 cm. Give the location of the image and the magnification. Describe what happens as the needle is moved farther from the mirror.

8. An object is placed at a distance 2f from the pole of a convex mirror of focal length f . Find the value linear magnification so produced in this case.

9. Refractive index of diamond with respect to glass is 1.6 and the absolute refractive index of glass is 1.5. Find out the absolute refractive index of diamond.

10. Draw ray diagrams showing the image formation by a convex mirror when an object is placed:-

    (a) at infinity.
    (b) at a finite distance from the mirror.

CHEMISTRY

1. Explain the difference between deliquescent and hygroscopic nature of substances with suitable example.

2. Write chemical equation for the reaction of zinc metal on NaOH .

3. What will you observe when

   (i) Red litmus paper is introduced into a solution of sodium carbonate .
   (ii) Methyl orange is added to dilute hydrochloric acid .
   (iii) A drop of phenolphthalein is added to the solution of lime water .
   (iv) Blue litmus is introduced into a solution of ferric chloride .

4. Why should plaster of paris be stored in a moisture proof container?

5. Equal lengths of magnesium ribbons are taken in test tubes A and B . Hydrochloric acid is added to test tube A while acetic acid is added to test tube B .In which case , fizzing occurs more vigorously and why ?

6. The gases hydrogen and chlorine do not react with each other even if kept together for a long time . However in the presence of sunlight , they readily combine . What does actually happen ?

7. (I) Solid calcium oxide was taken in a container and water was added slowly to it :

   (a) Write the observation.
   (b) Write the chemical formula of the product formed.

   (ii) What happens when carbon dioxide is bubbled through lime water:
   (a) in small amount
   (b) in excess

8. On adding a drop of barium chloride solution to an aqueous solution of sodium sulphate , a white precipitate is obtained .

   (a) Write a balanced equation for the reaction involved .

   (b) What other name is given to the precipitation reaction ?

   (c) On adding dilute hydrochloric acid to the reaction mixture , the precipitate disappears . Why ?

9. Identify the oxidizing and reducing agents in the following reactions :

   (a) $H_2O + F_2 \rightarrow HF + HOF$
   (b) $ZnO + H_2 \rightarrow Zn + H_2O$

10. Complete the following equations:-

   (a) $MnO_2 + HCl \rightarrow$

   (b) $CO\ (\ g\ ) + H_2 \xrightarrow{\text{340atm}}$

BIOLOGY

GROUP- A

1. What are the maintenance processes in living organisms?

2. What is the role of molecules in the living organisms?

3. What are macro and micro nutrients?

4. What is the reason to developed or evolution of organ and organ system in multi-cellular organisms?

5. What are called bio-catalysts? Give some example.

6. Which can fulfilled the carbon and energy requirements of the autotrophic organisms?

7. Arrange the following bio-chemical steps in properly and find out the process also.

    Reduction of carbon dioxide in to carbohydrates→conversion of light energy→absorption of light energy→splitting of water molecules in to hydrogen and oxygen.

8. What changes takes place in the photosythetically active part of plant leaf whenever it treated with iodine solution?

9. Which component of stomata help in their opening and closing?

10. Which chemical is used to absorb carbon dioxide during the demonstration of the essential role of sunlight in photosynthesis?

11. which the sources of oxygen during photosynthesis?

12. What are the stationary and mobile source of food for cow and lion respectively?

13. What is the role of saliva in food digestion?

14. What are protein digesting enzyme in human beings?

15. What is the role of bile?

GROUP- B

16. How our stomach wall can protected from strong acid HCl?

17. Dark reaction of photosynthesis does not need light. Do plant undergo dark reaction at night? Explain.

18. Why do herbivores animals have larger small intestine?

19. What is the process help in the movement of food inside of alimentary canal? How is the small intestine designed to absorb digested food?

Class - X   **Subject – Social Science**

HISTORY

1. In what way do you think the print of Frederic Sorrieu depicts a utopian vision?
2. Summarize the attributes of a nation according to Ernst Renan?
3. What were the measures and practices adopted by the French revolutionaries to create a sense of collective identity? Explain.
4. How did nationalism and the idea of the nation-state emerge?
5. What is a customs union and how did it help to strengthen economic nationalism?
6. Write a brief note on Giuseppe Mazzini the Italian revolutionary.
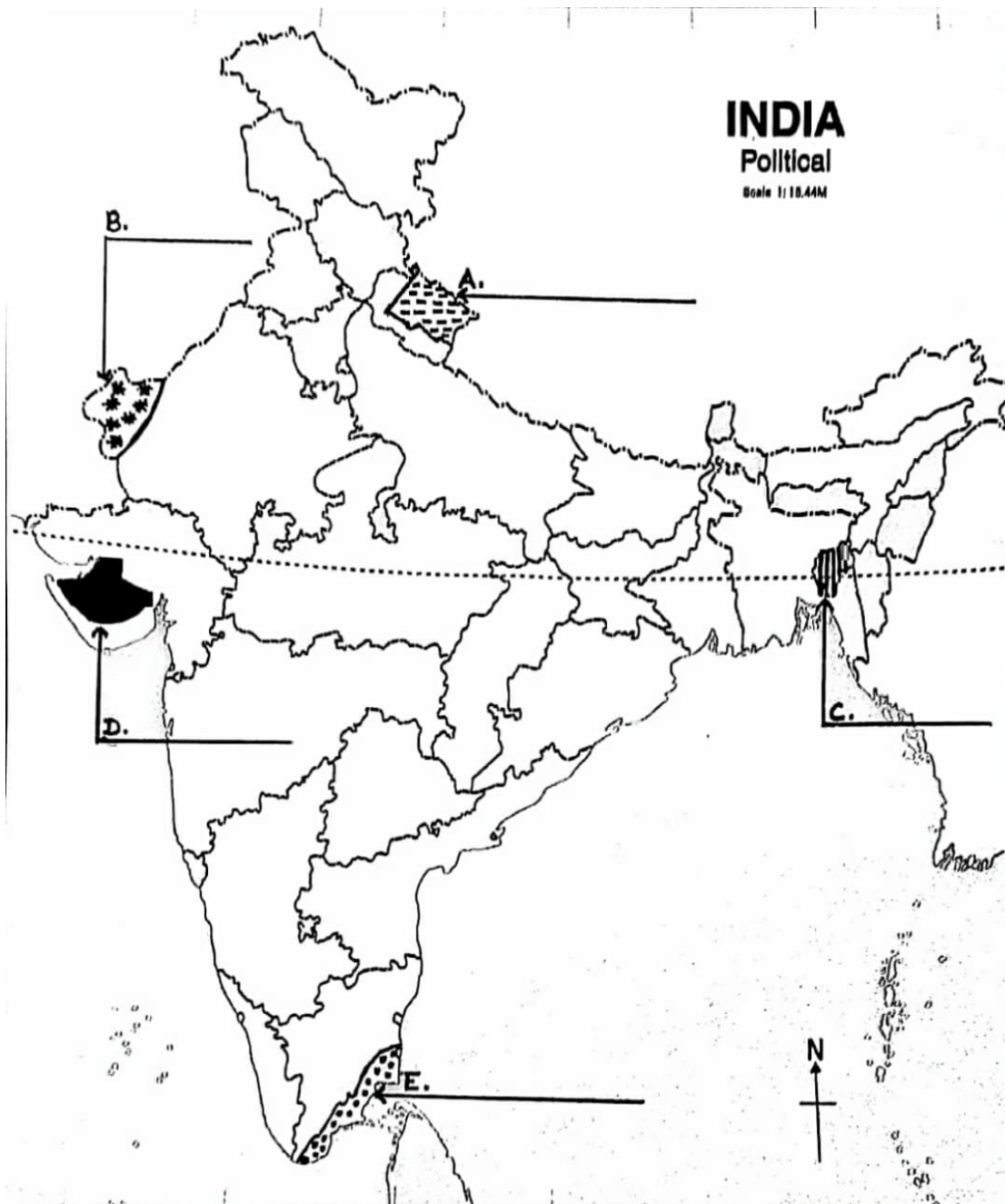
POLITICAL SCIENCE

1. What are the different forms of power sharing in modern democracies?
2. Why power sharing is desirable?
3. State some prudential and moral reasons for power sharing.
4. Belgium government followed the path of accommodation system.
5. What is a civil war? Explain the concept with example from the book.
6. How is power shared among different social groups?

GEOGRAPHY

1. Define the term 'Resource'. Explain the types of resources on the basis of exhaustibility.

2. "Indiscriminate use of resources has led to numerous problems". Justify the statement.

3. "In India, some regions are rich in certain types of resources but deficient in some other resources". Justify the statement with examples.

4. Describe the three main steps involved in the complex process of resource planning.

5. 'Land is a natural resource of utmost importance'. Why? Give three reasons.

6. Distinguish between Bangar and Khadar.

7. Explain any five human activities which are responsible for land degradation in India.

8. Five features A, B, C, D and E are marked on the given political outline map of India. Identify these features with the help of the following information and write the correct names.

A. Type of soil
B. Type of soil
C. Type of soil
D. Type of soil
E. Type of soil

INDIA
Political
Scale 1: 18.44M

ECONOMICS

1. "Development goals are different for different people." Explain the statement with examples.
2. " Development for one may be destructive for the other." Support the statement with suitable examples.
3. Explain the factors on which the quality of life depends.
4. What is per capita income? Why is it not an adequate indicator of economic development of a country?
5. How is it that an average person in Maharashtra has more income than an average person in Kerala but it lags behind in many crucial areas. Explain.
6. In what respects is the criteria used by UNDP for measuring economic development different from the one used by the World Bank?
7. Why do we use averages? What are the limitations in using it? Explain.
8. Why is the issue of sustainability important for development?
9. Define the following terms:
    (a) Infant Mortality Rate
    (b) Literacy Rate
    (c) Net Attendance Ratio
    (d) Life Expectancy at Birth
10. Write a short note on Body Mass Index.

Class - X   **Subject –French**

1. Decrivez festivale de france en 80 mots.

2. Presentez vous en 10 ligne.

3. Décrivez cette image
   (content,famille,belle,fille,garçon,beau,noir,s'amusant)

4. Comment allez -vous ?

5. Quelle est votre loisir?

6. Quelle est votreb repas favori.

7. Qui est votre meilleure ami.

8. Décrivez votre meilleure ami en 5 ligne.

9. Décrivez les pays voisin de france.

10. Quatre populaire vin de france.

Class - X   **Subject – German**

1. **Indirekte Fragen:**

   a. Warum hat sie so schlechte Laune?

      Ich kann nicht sagen, _____.

   b. Wo hast du das Kleid gekauft?

      Ich weiß nicht mehr, _____.

   c. Haben die Geschäfte sonntags geöffnet?

      Ich bin mir nicht sicher, _____.

   d. Wie heiβt er?

      Ich habe keine Ahnung, _____ .

2. **Schreib Infinitiv mit zu:**

   a. Sie machten ein Feuer an, an dem sie sich wärmten.

   b. Ich komme, damit ich mir einen guten Tennisschläger kaufe.

   c. Aber ich hoffe, ich bald wie ein Profi spielen kann.

   d. Wir haben uns vorgenommen, dass wir mehr Sport treiben.

3.

   Du bekommst eine Nachricht von deiner Freundin Stefanie. Sie lädt dich zu ihrer Geburtstagsparty ein. Stefanie möchte wissen, ob du kommst. **Antworte auf die Einladung.**
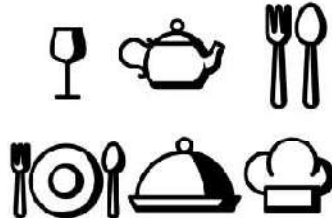
   - sich bedanken und zusagen
   - Hilfe anbieten
   - etwas mitbringen
   - Wer kommt noch?
   - nach dem Weg fragen

   (CBSE Prüfung 2019, 2018)

4. .

Du organisierst mit deinen Klassenkameraden eine **Abschiedsparty für die zwölfte Klasse.** Schreib einen Dialog.

● Wann und wo?

● jemand mitbringen

● Essen, Getränke und Musik

● Kleidung

5.

Bilde indirekte Fragen mit „ob".

1. Gibt es eine Kantine in der Schule?

   Ich bin mir nicht sicher, _____

2. Essen die Schüler mittags in der Schulkantine?

   Ich möchte wissen, _____

3. Ist das Essen in der Kantine gut oder schlecht?

   Ich weiß nicht, _____

4. Lernt ihr Kochen in der Schule?

   Ich verrate dir nicht, _____

5. Isst Ben lieber Fisch oder Fleisch?

   Ich habe keine Ahnung, _____

6. Hat Sabine das Essen gut geschmeckt?

   Ich weiß nicht, _____

7. Möchten die Kinder Pizza oder Hamburger essen?

   Ich wollte noch fragen, _____

   .

6. Lies den Text und beantworte die Fragen:

Muttertag – Vatertag

Viele Länder in der westlichen Welt feiern an einem Sonntag im Mai Muttertag. An diesem Tag bedanken sich die Kinder bei ihrer Mutter für ihre Liebe. Oft bereiten sie zusammen mit Papa ein leckeres Frühstück vor. Manchmal kochen sie auch gemeinsam ein besonderes Mittagessen oder laden die Mama in ein schönes Restaurant ein. Der Muttertag kommt aus den USA. In Deutschland haben ihn Blumenläden populär gemacht, die Plakate mit dem Text „Blumen für unsere Mutter" in die Schaufenster stellen. Auch heute noch sind Blumen das traditionelle Geschenk zum Muttertag, aber es gibt auch viele andere schöne Geschenkideen.

Auch der Vatertag kommt aus Amerika. Dort ist er heute sogar ein offizieller Feiertag. In Deutschland feiert man ihn zehn Tage nach dem Muttertag, oft mit kleinen Geschenken und einen Besuch im Restaurant. In einigen Regionen ist es aber auch ein reiner Männertag: Die Väter machen zusammen einen Ausflug und haben Spaß bei gutem Essen und Bier oder Wein. In Österreich geht man bei schönem Wetter gern mit der ganzen Familie wandern.

(Textquelle: Studio 21, Cornelsen)

A. Kreuze die richtige Lösung an.

	Am Muttertag	Am Vatertag	An beiden Feiertagen	
1.				schenkt man meistens Blumen.
2.				gibt es verschiedene regionale Traditionen.
3.				hilft der Vater in der Küche.
4.				bekommen die Eltern Geschenke.
5.				macht man oft einen Ausflug.
6.				gibt es gutes Essen.
7.				gibt es einen offiziellen Feiertag in Amerika.
8.				geht man mit der Familie wandern.

B. Feiert man Muttertag oder Vatertag in deinem Land? Wenn „ja", wie? Was machst du an diesem Tag?

_____

_____

_____

_____

7. Ergänze die fragen. Machen sie die Fragenindirekt.
    1. Wohin ist Aman gegangen?
       Hast du davon eine Ahnung, _____

    2. Um wie viel Uhr kommt Tobias?
       Sagst du mir, _____

    3. Gehst du morgen zur Schule?
       Kannst du mir sagen, _____

    4. Wo ist das Lehrerzimmer?
       Weißt du, _____

    5. Warum ist der Lehrer nicht da?
       Weißt du, _____

    6. Kommt die neue Lehrerin morgen?
       Der Direktor fragt, _____

    7. Woher kommt die neue Lehrerin Frau Schulz?
       Wissen Sie, _____

    8. Wann beginnen unsere Prüfungen?
       Weiß jemand, _____

    9. Haben wir den Mathetest am Montag?
       Wer kann mir sagen, _____

    10. Wer ist für diese Arbeit zuständig?
       Kannst du herausfinden, _____

8. **Ergänze die Verben in der richtigen Form**
    a. Hey, wartet mal! Wollt ihr bei einer Umfrage zum Thema „Schulessen" mitmachen? Ihr müsst nur diesen Fragenbogen _____ . Es dauert nicht lange. (ausfüllen)
    b. Deine Fotos von der Klassenfahrt sind total schön geworden. Ja, das finde ich auch. Ein paar habe ich aber auch_____. (bearbeiten)
    c. Du weißt doch, Simon interessiert sich sehr für Informatik. Er hat jetzt auch angefangen, Spiel zu _____. Echt? Das ist ja toll. (Programmieren)
    d. Hast du gesehen? Auf der Schulwebsite steht eine Einladung zu einem Schreib – Wettbewerb. Ich glaube, Ich würde d gern _____ . (teilnehmen)

9. **Was ist richtig?**
    a. Soll ich heute mal das Essen/essen machen?
    b. Oh ja, gern. Was willst du denn kochen/ Kochen?
    c. Frühstückst du vor oder nach dem duschen/ Duschen?
    d. Clara ist erst fünf Jahre alt, aber sie kann schon Lesen/lesen.

10. **Was passt nicht:**
    a. **Frisch**: Zutaten, Obst, Tisch, Gemüse

    b. **Sauber**: Küche, Geschirr, Nachspeise, Zimmer

    c. **Vegetarisch**: Gericht, Personal, Pizza, Nachspeise

    d. **Nett**: Personal, Direktion, Portion, Freund

Class - X   **Subject – Spanish**

1. Haz lista de programa de actividades de tu escuela
   en español.

2. ¿Cómo quieres pasar tus vacaciones de verano?
   Escríbelo en cinco frases.

3. Escribe un chat entre tú que hablas ingles y estudias
   español y alguien que es nativo del idioma español.

4. Qué quieres hacer el próximo fin de semana. Escríbelo en cinco frases.

5. Escribe un anuncio pequeño sobre Internet para
   dar clases de inglés.

6. Escribe participio de los verbos abajos :
   Actuar, Trabajar, Conocer, Poner, Escribir, Hacer,
   Poder, Ver, Romper, Ir, Morir, Volver, Decir, Abrir,
   Resolver, Descubrir, Cubrir, Salir, Saber, Almorzar.

7. Escribe diez frases para España.

8. Escribe un texto explicando dónde vives, a qué te dedicas y cómo es tu rutina.

9. Escribe tus datos personales.

10. Explica tus emociones positivas y negativas cuando aprendes español en clase.

11. Escribe las fechas siguientes en palabras :
    13-12-2007, 14-10-1492, 9-07-1975, 14- 05- 1857

Class - X   **Subject – Information Technology**

1. Answer the following questions:-

(i)   What do you mean by communication?

(ii)   What are the methods of communication? Explain.

(iii)   Briefly explain Communication Cycle.

(iv)   What do you mean by Encoding and Decoding?

(v)   What are the points should be kept in mind for the effective communication?

(vi)   What do you mean by the term Self-Motivation?

(vii)   Explain any three techniques to manage stress.

(viii)   How operating system acts as messenger between hardware and application program?

(ix)   Explain any four advantages of Database Management System.

(x)   Explain the types of relationship in database with example.

2. Differentiate between the following:-

(i)   Windows and Linux Operating System

(ii)   Temporary files and Cookies

(iii)   CUI and GUI

(iv)   Internal Self-Awareness and External Self-Awareness

(v)   Proprietary Software and Open Source Software

3. Write short notes on:-

(i)   Primary Key

(ii)   Key Field

(iii)   Foreign Key

(iv)   Data Validation

(v)   Query

(vi)   Device Driver

(vii)   System Tray

(viii)   Real-time OS

(ix)   File System

(x)   Firewall

4. Write the SQL queries on the basis of the table Student.

Table : Student

ROLL	NAME	CITY
1	RAJ	RANCHI
2	KUNAL	BOKARO
3	SHUBHAM	RANCHI
4	PRANJAL	PATNA
5	SUSHANT	RANCHI

(i) To display Roll and Name of all students who belongs from Ranchi.

(ii) Delete the Record of Roll-3.

(iii) Insert a new record (6,'Virat','Bokaro')

(iv) Update City of Roll-4 to Ranchi.

Class - X   **Subject – Artificial Intelligence**

Answer the following questions:

1. Do you think artificial intelligence is important? Why or why not?
2. List out the AI applications being used now.
3. Write down the advantages and disadvantages of verbal and non-verbal communication
4. What is the 7 C's of communication?
5. What are the factors affecting perspective in communication. Explain in details.
6. What rules should we follow while writing paragraph?
7. What is meant by 'Stress Management'
8. Aryan is speaking for the first time in a seminar. Give some tips which he should follow while addressing the audience. Also suggest how he can use body language to complement his speech.
9. Make a Power Point Presentation (PPT) in any one of the topics given below.
   a) Women empowerment
   b) Global Warming
   c) Entrepreneurship
   d) 21st century skills
10. You have been asked to design an AI-based smart security system for your colony/ village. What kind of AI security system you will design and deploy. What are the different ethical concerns that can arise out of such a system?