

TATA DAV PUBLIC SCHOOL, WBC, GHATOTAND

Summer Vacation H.W for Students Std. III to XII(2024-25))

Std. III

S.No.	Subject	Questions	Submission Date
	English	<p>English Reader</p> <p>1. I speak I say I talk</p> <p>i.i.Rearrange the jumbled letters.</p> <p>ii. Match each baby animals with its parent</p> <p>2. Dolphins</p> <p>i A6.Learn and write the question answers</p> <p>ii A7 Opposite words</p> <p>iii A8 Fill in the Blanks</p> <p>3. At the zoo</p> <p>i .B3 Learn and write the question answers</p> <p>Activity (Scrap book)</p> <p>1. Draw and colour five proper nouns and common nouns and make sentences.</p> <p>2. list the names of persons ,animals ,birds ,places and things that you see around yourself in your home.</p>	
	Maths	<ol style="list-style-type: none"> Learn and write multiplication tables from 1 to 12 (In HW Copy) Chapter-1 All worksheets and Brain Teasers (In HW copy) Draw Indian Place value chart (A4 Size paper) 	
	S.st	<p>CH-2(Family similarities) AND CH-3(Our food)</p> <p>DO IN HW COPY</p> <p>Do you know</p> <p>Fill in the blanks</p> <p>Match the following</p> <p>Value based questions - ch: 1</p> <p>ACTIVITY ON CHART PAPER</p> <p>Draw/Paste five pictures of different food items we get from plants and animals on chart paper .</p>	
	Science	<p>Ch 1 (My body)and Ch 2 (Plants)</p> <p>Do in HW Copy</p> <ol style="list-style-type: none"> Keywords Fill in the blanks True or false Tick the correct option <p>question D and E</p> <p>*Activity in Scrap book</p> <p>Draw colour and label</p>	

		<p>A) parts of our body</p> <p>B) human tongue</p> <p>C)different parts of a plant</p> <p>D)five fruit giving trees.</p> <p>*Art Integration Activity(scrapbook)*</p> <p>1. Make a collage to show different parts of the plant.</p>	
	Hindi	<p>1.1 से 50 तक हिंदी में गिनती लिखें।</p> <p>2. पाठ-1 भोलूभलु ककड़</p> <p>Do in Homework Copy</p> <p>भाषा माधरी (प्रश्न उत्तर)</p> <p>भाषा अभ्यास पेज -1</p> <p>पाठ -2 चतुरु कौवा</p> <p>भाषा माधरी(प्रश्नउत्तर)</p> <p>भाषा की बात - प्रश्न 1,2,3</p> <p>भाषा अभ्यास - प्रश्न 1,2,3,4,5,6</p>	
	Computer	<p>Ch 1 (Getting started)</p> <p>Do in Computer Copy</p> <p>Hands On</p> <p>Activity</p> <p>Fill in the blanks</p> <p>True or false</p> <p>Question answer</p> <p>Activity in chart paper</p> <p>Draw the picture of computer and it's parts and colour it beautifully</p>	

Std. IV

S.No.	Subject	Questions	Submission Date
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Eng.		<p>Lesson-1 A True Friend</p> <p>Do the exercise no-A5,A6 and A7</p> <p>Write an Informal Letter given on page no 11</p> <p>Lesson-2 Mix Up At Birth</p> <p>Do the exercise no-B3,B4,B5,and B6</p> <p>Reading Skill- Read at least 5 stories from the story Book Panchtantra and write a few lines about the 10 characters of the stories which you like most.(4 to 5 lines)</p>	
Maths		<p>Unit-1</p> <p>Worksheet-1 , Question -2 (All questions)</p> <p>Worksheet-2 , Question -3 (All questions)</p> <p>Worksheet-4 , Question -2, & 4 (All questions)</p> <p>Worksheet-6 , Question -2 & 3 (All questions)</p> <p>Brain Teaser - Question, 3,4,5,6,8,9 & 10.</p> <p>Unit-2 (Addition and Subtraction)</p> <p>Worksheet-1 , Question -3 & 4 (All questions)</p> <p>Worksheet-5 , Question -2, 3, 4 (All questions)</p> <p>Brain Teaser- Question 3,4,5 and 6.</p>	
S.st		<p>Ch 1 (Family Relationships)</p> <p>Ch 2 (Families Similarities)</p> <p>Write in HW Copy</p> <p>1)Objective questions 2) Fill in the blanks 3) Match the following 4)Question Answers</p> <p>Activity in chart paper Draw Indian map on chart paper and colour it.</p>	
ScienceM		<p>Chapter 1 My Body</p> <p>Chapter 2 Plants</p>	

		<p>Write in HW Copy</p> <p>1}. Keywords</p> <p>2}. Exercise questions</p> <p>3} Value based question answers</p> <p>*Activity in Scrap book*</p> <p>Draw a neat and well labelled diagram of human tongue, digestive system ,process of photosynthesis in plants, types of teeth</p> <p>Art Integration Activity</p> <p>1. Denture making with the help of clay and peanuts.</p> <p>2. Make a collage to show different parts of the plant.</p> <p>3. Use dried flowers and leaves to make greeting cards.</p> <p>4. Compose a poem on the uses of flowers</p>	
	HINDI	<p>पाठ -1 फैलती चप्पलें Do in Homework copy भाषा माधरी (प्रश्न उत्तर) भाषा अभ्यास (प्रश्न 8 & 9) पाठ -2 उलटा पलटा ु Do in Homework copy</p> <p>भाषा माधरी (प्रश्न उत्तर) भाषा की बात प्रश्न -1,2 भाषा अभ्यास (-3,4,6 &7)</p>	
	Computer	<p>Ch 1 (Computer- A Machine) Do in Computer Copy</p> <p>1.Hands On 2.Activity 3.Fill in the blanks 4.True or false 5.Question answer</p> <p>Activity in chart paper Draw the picture of three input devices and three output devices and colour it beautifully</p>	

Std. V

S.No.	Subject	Questions	Submission Date
	English	Lesson-1 Monday Morning Blue	

		<p>Do the exercise no-A4, A5 and A7. Page 7 of 40 Life Skill-Write the answer of the question A6 given on page no-7 Lesson-2 The Tale of a Tail</p> <p>Write the Power of Words given in page no-19, Complete the exercise no B4 and B5.</p> <p>Reading Skill- Read at least 5 stories from the Story Book Panchtantra and describe about 10 characters of the stories which you like most.(4 to 5 lines)</p>	
	Maths	<p>.Unit-1(Numbers up to 99,99,99,999) Worksheet-2, Question- 3 and 4 (All Questions) Worksheet-4, Question- 1 and 3 (All Questions) Worksheet- Brain Teaser- Question Number, 6,7,8,9 & 10</p> <p>Unit-2 (Operation On Large Number) Worksheet-1 , Question 1 & 2 (All questions) Worksheet-3 , Question-2 (All Questions) Worksheet-4 , All Questions Brain Teaser, Question 5,6,7,8,9 & 10.</p>	
	S.st	<p>Chapter -1 Importance Of Family Chapter -2 Human Migration Do in Homework copy 🙌 Something to know A. Tick the correct option B. Fill in the blanks C. State True or false D. Answer briefly E. Answer the following question of Chapter -1 Importance Of Family and Chapter -2 Human Migration Do in Homework copy 🙌 Activity in Scrapbook :- 1. Make a collage of your family member and paste in scrapbook. Write names of all family member in collage. Map work :- Draw colour and label all states and capital of India(On a political map of India)</p>	
	Science	<p>Ch 1 (My body)and Ch 2 (Plants)</p> <p>Do in HW Copy</p> <p>1 .Keywords</p> <p>2. Fill in the blanks</p> <p>3.True or false</p>	

		<p>4.question D and E</p> <p>*Activity(in activity copy)</p> <p>Draw colour and label</p> <p>A) Digestive system</p> <p>B) human tongue</p> <p>C)different parts of a plant</p> <p>D)five Aquatic plants</p> <p>*Art Integration Activity(in activity copy)</p> <p>Make a collage to show different parts of the plant.</p>	
	Hindi	<p>पाठ -1 दि मागी लडाई Do in Homework copy 📌 भाषा माधरी (प्रश्न उत्तर) भाषा की बात (प्रश्न 1,2, 3) भाषा अभ्यास (प्रश्न 3)</p> <p>पाठ -2 लौह पुरुष Do in Homework copy 📌 भाषा माधरी(प्रश्न -उत्तर) भाषा की बात (प्रश्न 1,2, 3) भाषा अभ्यास (प्रश्न 4,5,6)</p>	
	संस्कृत	<ol style="list-style-type: none"> घरों में पाए जाने वाले दस वस्तुओं के नाम हिंदी एवं संस्कृत में लिखें । ‘शिष्टाचारः’ पाठ को चार्ट पेपर में लिखकर एक परियोजना कार्य पूरा करें । दस पशुओं के चित्र चिपकाकर उनके नाम संस्कृत में लिखें । दस फलों और दस सब्जियों के नाम हिंदी एवं संस्कृत में लिखें । 	
	computer	<p>Ch 1 (Know your Computer) Do in Computer copy</p> <ol style="list-style-type: none"> Hands On Activity Fill in the blanks True or false Question answer <p>Write a short note on measuring storage capacity and write different unit to measure computer memory.</p> <p>Activity in chart paper- Draw a computer system , classify the components as input and Output devices and colour it beautifully.</p>	

Std. VI

S.No.	Subject	Questions	Submission Date
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English	<p>1. 'Noble animal your character puts mankind to shame' Discuss the character of White elephant and forester in the light of this comment by the King.</p> <p>2. List at least 5 things which you want to do but cannot do because of lack of time.</p> <p>3. Write about the author Ruskin Bond and paste his picture or draw it.</p> <p>4. Write the names of 5 countable and 5 uncountable nouns. Draw the pictures of the same.</p> <p>5. How did you spend your summer vacation. Write at least 5 to 10 lines .</p>	19.06.2024
S.st	<ol style="list-style-type: none"> 1. Make a glob 2. Make a drawing of the eight planet 3. What is solar system 4. What are stars 5. Write the advantages of a map . 6. Why is earth called unique planet . 7. Differentiate between physical map and political map . Chapter 1 keyword 	
Science	<p>ch- Our environment and ch - food - Key words Q- Fill in the blanks true /false Short and long answer type questions Question D and E ACTIVITY (in activity copy) draw diagram of (i) mineral cycle (ii) balance between oxygen and carbondioxide (iii) one model of rain waterharvesting (iv) to make one chart of nutrients and deficiency diseases (v) to make collage of plants and animal source of food</p>	
Hindi	<p>‘साथी हाथ बढ़ाना’ कविता को चार्ट पेपर पर लिखकर एक परियोजना कार्य करें ।</p> <p>2. प्रमुख भारतीय 10 त्योहारों के नाम लिखकर मनाये जाने वाले महीनों के नाम लिखें ।</p> <p>3. ‘पुरष्कार’ पाठ से 15 संज्ञा शब्दों को चुनकर वाक्य बनाएँ ।</p> <p>4. ‘चिट्ठी के अक्षर’ पाठ से 15 संयुक्त अक्षर वाले और अनुस्वार अथवा अनुनासिक शब्दों को चुन कर लिखें ।</p>	
MATHS	<ol style="list-style-type: none"> 1. Learn and write multiplication tables from 1 to 15. 2. Chapter-1 All worksheets and Brain Teasers 3. Roman Numerals from 1 to 100 (All in HW copy) 	
संस्कृत	<ol style="list-style-type: none"> 1. पुरः पुरः प्रगच्छ रे गीत को चित्र सहित एक चार्ट पेपर पर तैयार कीजिये । 2. ‘वद’ तथा ‘हस्’ धातु रूप पाँचो लकारों में लिखें । 3. ‘किम्’ शब्द रूप तीनों लिंगों में लिखें । <p>सभी वर्णों को उनके भेदों के अनुसार लिखें ।</p>	
COMPUTER	Draw and level input output devices (one for each student in A-4 size paper)	

Std. VII

S.No.	Subject	Questions	Submission Date
	English	<ol style="list-style-type: none"> 1. Write about the author Ruskin Bond , Also paste his picture or draw it. 1. Do the extract of Lesson - 2 from English Literature Book. 3. List the names of the things offered by the girl in the poem and also write the response of the bird. 4. What are the qualities a hero must have according to you. 5. Do the page no 11 of English Practice Book. 6. How did you spend your summer vacation. Write at least 5 to 10 lines . 	
	Maths	<p>Chapter- Rational Number</p> <p>Worksheet-2 , Question -3,4,5,6,7 and 8</p> <p>Worksheet-3 , Question -2 and 3 (All questions)</p> <p>Worksheet-5 , Question -1,2 and 3 (All questions)</p> <p>Worksheet-6 , Question -2, 3 and 5 (All questions)</p> <p>Brain Teaser- Question 5 and 8.</p> <p>Chapter-2 (Operation On Rational Number)</p> <p>Worksheet-1 , Question -2 and 3 (All questions)</p> <p>Worksheet-2 , Question -3,4 and 5</p> <p>Worksheet-5 , Question -2,3,4 and 6 .</p>	
	S.st	<p>QUESTIONS</p> <ol style="list-style-type: none"> 1. What are the key elements of Democracy. 2. Why atmosphere is important to us. 3. How are the earthquakes measured? 4. Which processes modify the earth? 5. What are lithospheric plates? 6. How are the earthquakes predicated? 7. What is a volcano? Explain with the help a diagram. 8. How are earthquakes and volcanoes caused? 9. What is an ecosystem? 10. What are human made environment? 	
	Science	<p><u>ART INTEGRATION</u></p> <p>Make a 3-D Model of Digestive System of Man with Paper Mache or POP/Clay.</p> <p>Discuss with your parents and grandparents, the way to lead a healthy life. Based on the discussion design a diet plan for the children of your age group with tips and suggestions to lead a healthy life.Help your parents/grandparents in cooking healthy dishes and take pics and make a</p>	

scrap book report for all the above mentioned activity.

QUESTIONS(SA,HOTSQ,LA,CASE STUDY)

(To be done in the Home Work Copy)

Why is Cuscuta, categorised as a parasite?
Plant cannot use the nitrogen present in the soil directly. Why?

Why are insectivorous plants called partial heterotrophs?

What is the stored food form in sunflower seeds?

What do you understand by saprotrophic mode of nutrition?

A mutually beneficial relationship that occurs between two plants. It is known by what name? Give an example.

Mosquitoes, bed bugs, lice and leeches suck our blood. Can they be called as parasites? [HOTS]

Insectivorous plants have one or the other specialised organs to catch their prey. What is that organ?

Farmers spread manure of fertilisers in the field or in gardens, etc. Why are these added to the soil?

A cell is formed of many sub-components. Identify different constituents of the cell. Are animal and plant cells similar? A goat eats away all the leaves of a small plant (balsam). However, in a few days, new leaves could be seen sprouting in the plant again. How did the plant survive without leaves? The plant of balsam survived on the food stored in the stem and roots.

Different modes of nutrition has been observed in plants. What are they? Give example of each.

	<p>Sunlight, chlorophyll, carbon dioxide, water and minerals are raw materials essential for photosynthesis. Do you know where they are available? Fill in the blanks with the appropriate raw materials.</p> <p>(a) Available in the plant:</p> <p>(b) Available in the soil:</p> <p>(c) Available in the air:</p> <p>(d) Available during the day :</p> <p>Plants are considered an essential part of earth as they keep a check on lot of process occurring all over. What would happen if all the green plants are wiped from earth?</p> <p>Autotrophs and heterotrophs are two different organisms with distinct modes of nutrition state. How are they different from each other?</p> <p>Wheat dough if left in the open, after a few days, starts to emit a foul smell and becomes unfit for use. Nitrogen is an essential nutrient for plants growth. But farmers who cultivate pulses as crops like green gram, bengal gram, black gram, etc., do not apply nitrogenous fertilisers during t cultivation. Why?</p> <p>Pooja is worried about her new shoes which she wore on special occassions that they were spoiled by fungus during rainy season. Is she right to worry, if yes, then tell why does fungi suddenly appears during the rainy season? [HOTS]</p> <p>In what unique manner does a pitcher plant derive its nutrition?</p> <p>Water and minerals are absorbed by the roots and then transported to leaves. How?</p> <p>Some plants have deep red, violet or brown coloured leaves. Can these leaves perform the photosynthesis process? [HOTS]</p> <p>If plant has a requirement for nitrogen, then from where will they obtain it?</p> <p>In the absence of photosynthesis, life would be impossible on earth. Is it true or false?Why?</p> <p>Describe the process by which plants prepare their food using different raw materials.</p> <p>Describe the method for replenishing the soils with minerals and other essential constituents used by plants growing in those soil by farmers.</p> <p>CASE STUDY</p> <p>Harish went to visit his grandfather in village where he saw that his grandfather's field of wheat are infected with fungus but no one is aware of this. Harish rushed to his grandfather's</p>	
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		<p>side and told him that the field have been infected with fungi. He should use an antifungal agent in his fields to stop this infection.</p> <p>(a) What is fungus? (b) Can fungus only cause diseases or can it be helpful also? (c) What values are shown by Harish? [Value Based Question]</p> <p>Wild animals like tiger, wolf, lion and leopard do not eat plants. Does this mean that they can survive without plants? Can you provide a suitable explanation? [HOTS]If there are no plants, herbivorous animals will not survive and ultimately animals like tiger, wolf, lion and leopard will have nothing to eat.</p> <p><u>CASE STUDY</u></p> <p>Asha went to visit her grandfather in his village. He was having a serious discussion with his fellow members regarding the productivity level of crops for present year. They all were worried about how to increase the productivity of crop Asha listened to this and then suggested to the group that the reason may be decreased level of minerals in soil.</p> <p>She told her grandfather to plant crops like pulses, gram, beans, etc., for a year then follow with regular crops. This will increase the crop productivity?</p> <p>(a) What will you name the process suggested by Asha? Why is there decrease in crop productivity? (b) What are noted benefits of this process? Will the results be as what Asha expressed? (c) What values are shown by Asha? [Value Based Question]</p> <p>Answer:</p> <p>(a) This process is known as crop rotation. All the plants/crops grown in soil use the minerals present in soil for their own use. This continuous usage depletes the concentration of mineral in soil. (b) After growing leguminous plants, the mineral content of soil is restored and enriched to new level. Yes, the benefit of leguminous plant is the re-enrichment of soil minerals. (c) Asha is observant, sincere and interested in applying her knowledge to situations.</p>	
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Hindi	<ol style="list-style-type: none"> 1. भारतीय कैलेंडर के सभी बारह महीनों की विशेषताओं को दर्शाते हुए चार्ट पेपर पर एक परियोजना कार्य करें। 2. प्रमुख भारतीय 10 त्योहारों के नाम लिखकर मनाये जाने वाले हिंदी महीनों के नाम लिखें। 3. 'नाटक में नाटक' पाठ से 15 जाति वाचक संज्ञा शब्दों को चुनकर वाक्य बनाएँ। 4. 'बातूनी' पाठ से 15 संयुक्त अक्षर वाले शब्दों को चुन कर शब्दकोष के अनुसार सजाएँ।
संस्कृत	<ol style="list-style-type: none"> 1. ईश्वर तव महिमानं वन्दे' कविता का चित्र सहित चार्ट पेपर पर लिखकर परियोजना कार्य पूरा करें। 2. अस्मद्, युष्मद्, तथा किम्, (तीनों लिंगों में) लिखें। 3. अस्, तथा दृश् धातु रूप पाँचो लकारों में लिखें।
COMPUTER	Draw and Write two points regarding the generation of computers. (each student in A-4 size paper)

Std. VIII

S.No.	Subject	Questions	Submission Date
	English	<ol style="list-style-type: none"> 1. Design an English magazine which must include the following writers : William Shakespeare , Mulk Raj Anand, R. K. Narayan, Anita Desai, Sarojini Naidu (also add an attractive cover page and write in about 100 words about each writer.) 2. Write a letter to your friend describing how you spent your summer vacation. 3. Write a Letter to the Editor of a Newspaper About Frequent Breakdown of Electricity in Your Locality 4. Write Verb Forms (30) v1 v2 v3 v4 v5 	17 june 2024
	Maths	<ol style="list-style-type: none"> 1. Learn and write Squares from 1 to 30 and cubes from 1 to 15. 2. Chapter-1 All worksheets and Brain Teasers 3. Write 5 vedic tricks to find square and square roots . 	
	S.st	<p>GEOGRAPHY</p> <ol style="list-style-type: none"> 1. What do you understand by Resources? Explain. 2. Explain the classification of resources on the basis of origin and give one example of each. 3. Resource planning is essential for sustainable existence. Discuss. 4. Write a paragraph on resource planning 	

		<p>5.What has significantly contributed to land degradation?</p> <p>6.List the problems caused due to the indiscriminate use of resources of human beings?</p> <p>MAP SKILL Locate all the states and union territories of India on physical map of India</p> <p>History</p> <ol style="list-style-type: none"> 1.What type of information do we get from official Record? 2.How do letter, writings and speeches provide information?Give examples. 3.Mention any five major events related to the freedom struggle of India. 4.Explain any five major sources of information about Modern Indian History. 5.Enumerate the steps taken by the East India Company to establish its rule in India? How did the rule of the company come to an end? <p>Civics</p> <ol style="list-style-type: none"> 1.State the main features of the Indian Independent Act,1947. 2.Describe the Progress made by India in the field of industry and agriculture. 3.Mention any five basic features of Indian’s foreign policy. 4.Highlight the main features of Dr.A.P.J. Abdul Kalam’s Vision 2020. 5.Why did India opt for a democratic set-up?In your opinion, how far have we succeeded in this respect? 	
	Science	<p><u>PHYSICS:</u></p> <p><u>ART INTEGRATION</u> Make a clay model of Lord Ganesha or any showpiece to learn the effect of force.</p> <p><u>HOTS QUESTIONS</u></p> <p>Which force is responsible for downward movement of a parachutes? Will he come down with the same speed without the parachute?</p> <p>A force of 100 N is applied on an area of 4 m². Compute pressure being applied on the area. How does an applied force changes the speed of an object?</p> <p>Name the forces acting on the car sticking to an electromagnet in a Junkyard. Which one of them is larger?</p>	

		<p>What is the similarity between electrostatic and magnetic forces?</p> <p>Question 9.</p> <p>What are the effects of force on an object?</p> <p>What is force? State the difference between contact force and non-contact force.</p> <p>Define the different types of forces.</p> <p>Why it is easier to walk on soft sand if we have flat shoes rather than shoes with sharp heels (or pencil heels)?</p> <p>What is pressure? What is the relation of pressure with area on which it is applied?</p> <p>List the characteristics of pressure exerted by a liquid.</p> <p>We know that there is a huge amount of atmospheric pressure on us. But we do not experience its effect why?</p> <p>Why do sea divers wear specially designed suits?</p> <p>Two persons are applying forces on two opposite sides of a moving cart. The cart still moves with the same speed in the same direction. What do you infer about the magnitudes and direction of the forces applied?</p> <p>An archer shoots an arrow in the air horizontally. However, after moving some distance, the arrow falls to the ground. Name the initial force that sets the arrow in motion. Explain why the arrow ultimately falls down.</p> <p>Two rods: A and B, having same weight and equal length have different thickness. Rod A is thinner while Rod B is thicker. They are held vertically on the surface of sand. Which one of them will sink more? Why?</p> <p>It is difficult to cut cloth using a pair of scissors with blunt blades. Explain.</p>	
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CHEMISTRY -CH- SOURCES OF ENERGY

1. TO explain renewable and nonrenewable source of energy
2. To explain different types of coal with diagram.
3. explain occurrence of petroleum with diagram.
4. short notes of cleaner fuels
5. Key words
6. question D and E

CH- POLLUTION OF AIR

1. write major causes of air pollution
2. write harmful effects of carbon monoxide on plants and human beings
3. harmful effects of acid rain
4. question D and E
5. Activity in half chart paper- To make poster of climate change

BIOLOGY

What do you mean by unicellular and multicellular organisms?

Give a brief description of the nucleus.

Name the following:

Controls the function of a cell.

- Selectively allows things to get in and out of the cell.
- Transfer characters from parents to offsprings.

What is nucleolus?

What is endoplasmic reticulum?

What are cell organelles?

What is cell membrane?

Long Answer Questions

Differentiate between

- (a) Cell wall and cell membrane
- (b) Leucoplast and chloroplast
- (c) Vacuole in a plant cell and an animal cell
- (d) A tissue and an organ

What are the main functional regions of a cell?
Explain.

Higher Order Thinking Skills Q

Which organism is more efficient in its functioning—unicellular or multicellular? Why?

What would happen if animals have cell wall?
Cells consist of many organelles, yet we do not call any of these organelles as structural and functional unit of living organisms. Explain.

Why plant cells need cell walls?

CASE STUDY

Question 1.

In a cell, every cell organelle perform its own function. They coordinate the functions of cell.

- Can a cell work if any of its organelle stops working?
- What does a cell represent in a real life?
- What values do we get from the above paragraph?

Question 2.

Shyam being very inquisitive, didn't listen to the teacher's instruction properly. He took the thin layer of onion peel with a drop of water on the glass slide. He placed the coverslip on it and start observing the slide under a microscope. But he was unable to see the cells of onion peel properly.

		<ul style="list-style-type: none"> • What do you think he might have forgotten? • What is the function of a dye? • What values do you get from the above incidence? <p style="text-align: center;"><u>ART INTEGRATION</u></p> <p>Make 3-D Model of Plant Cell and Animal Cell using clay/paper-mash.</p> <p>Using Vaccination card of any child of your sibling or any child in your neighbour, make a project to find the different vaccines and the diseases for which they are given and write the cause and the impact of these communicable diseases.</p>	
	Hindi	<ol style="list-style-type: none"> 1. हम पंछी उन्मुक्त गगन के अथवा 'दोपहरी' कविता चित्र सहित चार्ट पेपर पर लिखकर परियोजना कार्य पूरा करें। 2. संज्ञा और उनके सभी भेदों के नाम, परिभाषा तथा उदाहरण लिखें। 3. पाठ्य पुस्तक से 15 मुहावरे चुन कर उसके अर्थ लिखकर वाक्य बनाएँ। 4. 'महात्मा गाँधी' के जीवन चरित का वर्णन करते हुए 200 शब्दों में करें। 	
	संस्कृत	<ol style="list-style-type: none"> 1. चार्ट पेपर पर संस्कृत के 10 सूक्तियों को अर्थ सहित लिखकर परियोजना कार्य पूरा करें। 2. अस्, कृ, गम् धातु रूप पाँचो लकारों में लिखें। 3. अस्मद्, यष्मद्, तथा तत् (तीनों लिंगों में) शब्द रूप लिखें। 4. दीर्घ, गुण, वृद्धि, तथा यण् संधि के 10-10 उदाहरण लिखें। 	
	COMPUTER	Draw any one N/W device and write its usages in A4 size paper	

S.No.	Subject	Questions	Submission Date
	English	<p>1. write a letter to the Editor complaining about frequent power cuts in your city.</p> <p>2) write a letter to your friend advising him to keep a safe distance from mobile phone as too much use of it can spoil his/her life.</p> <p>3) write an article on 'How students are badly affected by mobile phone.'</p> <p>4) write the verb forms of 25 common verbs.</p> <p>5) write a good paragraph on the following writers with a picture-</p> <p>•william Shakespeare •Robert Frost •Rk Narayan •William Wordsworth</p>	17/06/24
	Maths	<ol style="list-style-type: none"> 1. Draw a pictorial circular map for the given facts- All natural numbers are whole numbers, All whole numbers are integers, all integers are rational numbers and all rational numbers are real numbers. 2. Draw a pictorial circular map for the given facts- All rational and irrational are real numbers. 3. Insert five rational and five irrational numbers between $\frac{7}{9}$ and $\frac{8}{9}$. 4. Write three irrational number between square root of 2 and square root of 3. 5. represent square root of 13 geometrically. 6. What do you mean by the polynomial over real coefficients. Write the standard form of a polynomial of degree n. 7. Give an example of a trinomial of degree 99, a binomial of degree 37, a monomial of degree 29. 8. What do you mean by a zero of a polynomial ? Justify with example. 9. State and explain remainder theorem and factor theorem. What is the advantage of remainder theorem. 10. Solve any 10 questions related to remainder theorem other than NCERT and R.S Agarwal. 11. Solve any 10 questions related to factor theorem other than NCERT and R.S Agarwal. 12. Twenty factorisation problems only based on middle term splitting. 13. Factorisation of a cubic polynomial- 6 problems of R.D Sharma. 14. Algebraic identities- Cube of (a+b) & (a-b), cube Sum & difference of a & b, <p>3- Problems related to each identities.</p>	

	S.St	<p>Questions:</p> <p>GEOGRAPHY</p> <ol style="list-style-type: none"> 1. India's land routes have been important since ancient times, Explain 2. Write the size and extent of India. 3. Which are the major physiographic divisions of India ? contrast the relief of himalayan region with that of the northern plain. 4. Explain three main longitudinal divisions of Himalayas . 5. Give an account of four divisions of Himalayas from west to east along with Purvanchal hills. 6. mention any 5 characteristics of Himalayan mountain. <p>ACTIVITY</p> <ol style="list-style-type: none"> 1. MAP SKILL- CH. 1 AND CH. 2 2. VBQ- a) In the Lakshadweep Island group there is a Bird sanctuary , should people be allowed to live there? What will be the effects? b) We know that India has had strong geographical and historical links with her neighbours, which values are reflected in this statement? <p>HOTS QUESTIONS</p> <ol style="list-style-type: none"> a. Justify the naming of Indian ocean after India. b. India has a long coastline which is advantageous. Examine. <p>SUBJECT ENRICHMENT</p> <p>Define the following</p> <ol style="list-style-type: none"> a) Palk Strait b) Standard Meridian. <p>ECONOMICS:</p> <ol style="list-style-type: none"> 1. What is economics and what are the different economic activities of people in villages ? 2. What is production and what are the various factors of production? Explain. 3. Distinguish between the Fixed capital and working capital. 4. What is human capital and why is it very much important ? 5. Why is land a special factor of production and what are the precaution to be taken for using land 	
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		<p>HISTORY</p> <p>(1) Describe the circumstance leading to the outbreak of revolutionary protest in France.</p> <p>(2) What was the immediate cause of French revolution?</p> <p>(3)How did France become a constitutional monarchy?</p> <p>(4) Describe the Reign of Terror.</p> <p>(5)How was the French Society organised before the revolution of 1789? State the role of the third estate in it.</p> <p>(6)Write a short note on the fall of Bastille?</p> <p>(7)What was the role of philosophers and thinkers in the French Revolution? Explain by giving three examples.</p> <p>(8)Compare the political economics and social conditions of France before and after the revolution</p> <p>(10) Important terms:Aristocracy, Subsistence Crisis, National assembly, Chateau, Guillotine, Taille, Livre, Tithes</p> <p>POL.SCINCE</p> <p>1 Compare the democratic system in China with Mexico.</p> <p>2.State the main features of democracy.</p> <p>3.What does referendum mean?</p> <p>4.How does Musharraf establish his rule in Pakistan?</p> <p>5.Give arguments in favour of democracy.</p> <p>6.Give one example of Zimbabwe, show how laws were made by one single ruler.</p> <p>7. Give arguments against democracy.</p> <p>8. Important term: Democracy, Minority, Multi-Party election.</p>	
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	Science	<p><u>PHYSICS</u></p> <p>Q1. Derive three equations of motion graphically.</p> <p>Q2. A girl while riding a bicycle moves with the speed of 10km/hr for 2h and with the speed of 15km/h for the next 3h. Find the total distance moved by her and her average speed.</p> <p>Q3. A train 100m long is to cross a river bridge of length 800m. What time will it take to cross the bridge? Given that the train moves with a constant velocity of 36km/h.</p> <p>Q4. Shatabdi Express starting from rest attains a velocity of 108Km/h in 2min. Assuming the acceleration to be uniform, find the value of (i) acceleration (ii) the distance travel by the train for attaining this velocity.</p> <p>Q5. Which of the two decides the direction of motion of an object: its velocity or the acceleration acting on it? Explain by giving an example.</p> <p>Q6. On a 120km track a train travels the first 30km at a uniform speed of 30km/h. calculate the speed with which the train should move the rest of the track so as to get the average speed of 60km/h for the entire track.</p> <p>CHEMISTRY</p> <ol style="list-style-type: none"> 1. Intext questions and exercise questions of NCERT ch -1(Matter in our surroundings) 2. To make a file on (i) sublimation (ii) boiling (iii) evaporation with diagram(in A4 size paper) <p><u>BIOLOGY</u></p> <p><u>ART INTEGRATION</u></p> <p>Make 3-D model of PLANT CELL OR ANIMAL CELL</p> <p><u>ANSWER THE FOLLOWING QUESTIONS</u></p> <p>Why are lysosomes known as ‘suicide-bags’ of a cell</p> <p>Do you agree that “A cell is a building unit of an organism”? If yes, explain why?</p> <p>Why does the skin of your finger shrink when you wash clothes for a long time?</p> <p>Soln:</p> <p>Why is endocytosis found in animals only?</p> <p>A person takes concentrated solution of salt, after sometime, he starts vomiting. What is the phenomenon responsible for such situation? Explain.</p> <p>.</p> <p>Name any cell organelle which is non-membranous.</p> <p>. We eat food composed of all the nutrients like carbohydrates, proteins, fats, vitamins, minerals and water. After digestion, these are absorbed in the form of glucose,</p>	
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		<p>amino acids, fatty acids, glycerol etc. What mechanisms are involved in the absorption of digested food and water?</p> <p>If you are provided with some vegetables to cook, you generally add salt to the vegetables during the cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?</p> <p>If cells of onion peel and RBC are separately kept in hypotonic solution, what among the following will take place? Explain the reason for your answer.</p> <p>(a) Both the cells will swell. (b) RBC will burst easily while cells of onion peel will resist the bursting to some extent. (c) a and b both are correct. (d) RBC and onion peel cells will behave similarly.</p> <p>Soln: (c) a and b both are correct.</p> <p>Bacteria do not have chloroplast but some bacteria are photoautotrophic in nature and perform photosynthesis. Which part of the bacterial cell performs this?</p> <p>Write the name of different plant parts in which chromoplast, chloroplast and leucoplast are present.</p> <p>Soln: Name the organelles which show the analogy written as under</p> <p>(a) Transporting channels of the cell—— (b) Power house of the cell—— (c) Packaging and dispatching unit of the cell—— (d) Digestive bag of the cell—— (e) Storage sacs of the cell—— (f) Kitchen of the cell—— (g) Control room of the cell——</p> <p>How is a bacterial cell different from an onion peel cell? How do substances like carbon dioxide (CO₂) and water (H₂O) move in and out of the cell? How does amoeba obtain its food? Name the two organelles in a plant cell that contain their own genetic material and ribosomes.</p> <p>Why are lysosomes also known as “scavengers of the cells”?</p>	
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		<p>Which cell organelle controls most of the activities of the cell?</p> <p>Which kind of plastid is more common in</p> <p>(a) roots of the plant (b) leaves of the plant (c) flowers and fruits</p> <p>Why do plant cells possess large-sized vacuole?</p> <p>How are chromatin, chromatid and chromosomes related to each other?</p> <p>What are the consequences of the following conditions?</p> <p>(a) A cell containing higher water concentration than the surrounding medium (b) A cell having low water concentration than the surrounding medium. (c) A cell having equal water concentration to its surrounding medium.</p> <p>Long Answer Questions</p> <p>Draw a plant cell and label the parts which</p> <p>(a) determines the function and development of the cell (b) packages materials coming from the endoplasmic reticulum (c) provides resistance to microbes to withstand hypotonic external media without bursting (d) is site for many biochemical reactions necessary to sustain life. (e) is a fluid contained inside the nucleus</p> <p>Draw a well-labelled diagram of a eukaryotic nucleus. How is it different from nucleoid?</p> <p>Differentiate between rough and smooth endoplasmic reticulum. How is endoplasmic reticulum important for membrane biogenesis?</p> <p>In brief state what happens when</p> <p>(a) dry apricots are left for sometime in pure water and later transferred to sugar solution? (b) a Red Blood Cell is kept in concentrated saline solution? (c) the Plasma membrane of a cell breaks down? (d) rheo leaves are boiled in water first and then a drop of</p>	
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		<p>sugar syrup is put on it?</p> <p>(e) golgi apparatus is removed from the cell?</p> <p>Draw a neat diagram of plant cell and label any three parts which differentiate it from an animal cell.</p> <p>Why are lysosomes known as ‘suicide-bags’ of a cell?</p> <p>Do you agree that “A cell is a building unit of an organism”? If yes, explain why?</p> <p>Why does the skin of your finger shrink when you wash clothes for a long time?</p> <p>Why is endocytosis found in animals only?</p> <p>A person takes concentrated solution of salt, after sometime, he starts vomiting. What is the phenomenon responsible for such situation? Explain.</p> <p>. Name any cell organelle which is non-membranous.</p> <p>. We eat food composed of all the nutrients like carbohydrates, proteins, fats, vitamins, minerals and water. After digestion, these are absorbed in the form of glucose, amino acids, fatty acids, glycerol etc. What mechanisms are involved in the absorption of digested food and water?</p> <p>If you are provided with some vegetables to cook, you generally add salt to the vegetables during the cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?</p> <p>If cells of onion peel and RBC are separately kept in hypotonic solution, what among the following will take place? Explain the reason for your answer.</p> <p>(a) Both the cells will swell.</p> <p>(b) RBC will burst easily while cells of onion peel will resist the bursting to some extent.</p> <p>(c) a and b both are correct.</p> <p>(d) RBC and onion peel cells will behave similarly.</p> <p>Bacteria do not have chloroplast but some bacteria are photoautotrophic in nature and perform photosynthesis. Which part of the bacterial cell performs this?</p> <p>. Name the two organelles in a plant cell that contain their own genetic material and ribosomes.</p> <p>Soln:</p>	
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		<p>Why are lysosomes also known as “scavengers of the cell.</p> <p>How are chromatin, chromatid and chromosomes related to each other?</p> <p>. What are the consequences of the following conditions?</p> <p>(a) A cell containing higher water concentration than the surrounding medium</p> <p>(b) A cell having low water concentration than the surrounding medium.</p> <p>(c) A cell having equal water concentration to its surrounding medium.</p>	
	Hindi	<p>Q1. पर्यावरण को साफ हुआ स्वच्छ बनाने की सलाह देते हुए अपने छोटे भाई को पत्र लिखें।</p> <p>Q2. कबीर के किन्ही 20 दोहों का संकलन कीजिए। और उनके समाज सुधारो का साखियों के आधार पर वर्णन कीजिए।</p> <p>Q3. गदय पाठ -दो बैलों की कथा और पदय पाठ -कबीर के साखियां/सबद के अभ्यास प्रश्नों का उत्तर लिखें।</p> <p>Q4. अपनी किसी यात्रा का लगभग 300 शब्दों में वर्णन करें।</p> <p>Q5. परियोजना कार्य-उपसर्ग और प्रत्यय का उदाहरण सहित सुंदर चार्ट बनाएं।</p>	

	Computer	<p>Communication Skills</p> <ol style="list-style-type: none"> 1. What is communication and why is it important in our daily life? 2. How can you improve your verbal communication skills, such as speaking clearly and using appropriate language? 3. How can you improve your nonverbal communication skills, such as body language and facial expressions? 4. How can you listen actively and respond effectively to others? 5. How can you ask questions to clarify and understand others better? 6. How can you express your thoughts and ideas clearly and effectively in writing? 7. How can you use technology, such as email or messaging apps, to communicate effectively in a professional setting? 8. How can you work effectively in a team and communicate with team members? 9. How can you give and receive feedback effectively? 10. How can you handle conflicts and difficult conversations in a constructive and respectful manner? <p>Self Management Skills</p> <ol style="list-style-type: none"> 1. What is self-management and why is it important? 2. How can you set goals for yourself and work towards achieving them? 3. How can you manage your time effectively and prioritize your tasks? 4. How can you develop self-discipline and motivation to achieve your goals? 5. How can you handle stress and maintain a healthy work-life balance? 6. How can you develop good study habits and manage your academic workload effectively? 7. How can you maintain a positive attitude and mindset to overcome challenges and setbacks? 8. How can you take responsibility for your own actions and decisions? 9. How can you develop good habits, such as regular exercise or healthy eating, to improve your overall well-being? 10. How can you reflect on your own strengths and weaknesses to identify areas for self-improvement? <p>ICT Skills</p> <ol style="list-style-type: none"> 1. What is information technology and how has it evolved over time? 2. How can you use the internet and online resources to conduct research and find information for your studies? 	
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		<p>3. How can you use cybersecurity best practices, such as creating strong passwords and avoiding phishing scams, to protect your personal information?</p> <p>4. Draw neat and clean diagram of mobile phone and label its components?</p> <p>Note: Do all in IT Homework Copy with proper diagram.</p>	
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Std. X

S.No.	Subject	Questions	Submission Date
	English	<p>1. On the basis of the given line, develop a STORY in your own words : One day I was sleeping.....</p> <p>2. You are Kamal of Chandigarh. You feel perturbed due to rising cases of violence against women. Write a letter to the editor. (120 words)</p> <p>3. Write the summary of the following chapters:</p> <ol style="list-style-type: none"> 1. Dust of snow 2. A letter to God 3. Long Walk to Freedom <p>4. You are Ankit / Ankita resident of 111, Jai Hind colony, Mumbai – 400589, a student of class 10 and want to take up a Summer course in Computer graphic design. Write a letter of inquiry to the Director of NIIT Computech seeking details on the course content, eligibility, fees, timings and future scope of the course.</p>	16/06/24
	Maths	<ol style="list-style-type: none"> 1. State Fundamental theorem of Arithmetic. 2. Maths Lab Activity- Check the consistency/Inconsistency of a pair of Linear equation in two variables Using graph paper / scale /coloured pencil etc. 3. All NCERT Exercise questions of Quadratic equation and System of equations in two variables. 4. Additional 75 questions given in classroom.. 	
	S.St	<p>GEOGRAPHY</p> <ol style="list-style-type: none"> 1. How has technical and economic development led to more consumption of resources. 2. Indiscriminate use of natural resources has led to numerous problems ? Justify the statement. 3. What are the three different stages of resource planning ? Explain. 4. How have communities played an important role in conservation of forest and wildlife? 5. Write the importance of soil and explain the factors responsible for soil formation. 6. What are the main human activities activities mainly responsible for land degradation in India ? Explain 	

7. Distinguish between the red and laterite soils state five different points of distinction.
8. What are the three types and distribution of forests and wildlife resources? Explain

MAP SKILLS

1. On the political outline map of India locate and identify the various type of soils found in different states of India:s
2. On an outline map of India, Locate important Dams in India.

ECONOMICS:

1. **What is economic development and what are the important measures of economic development ?**
2. **What are the three different types of goals of development ? Explain with examples.**
3. **How are goals of development different as well as conflicting ? Explain with examples.**
4. **What is per capita income and why is it important and also being severely criticised?**
5. **What is Human Development and how is Human Development Index constructed ?**
6. **What is sustainable development and why is the issue of sustainability important for development ?**
7. **“The earth has enough resources to meet the of all but not enough to meet the greeds of a single person” ! Explain the statement**

History

Important for CBSE Board Exam 2024-25

- (1) **What steps did the French revolutionaries take to create a sense of collective indentity among the French people?**
- (2) **Describe the process of unification of Germany?**
- (3) **What changes did Napoleon introduce to make the administrative system more efficient in the territories ruled by him?**
- (4) **Briefly explain the process of Unification of Italy.**
- (5) **Describe the main clauses the treaty of Vienna of 1815.**
- (6) **What were the advantage and disadvantage of Napoleonic code or Civil code 1804?**

		<p>(7) How did ideas of national unity in early nineteenth century Europe Ally to the ideology of liberalism? explain</p> <p>(8) Why did nationalism aligned with imperialism become the causes of the First world war?</p> <p>(9) Write three features of the painting of Frederic Sorrieu.</p> <p>(10) How was Europe closely aligned to the ideology of liberalism?</p> <p>(11) Important terms: Socialism, Utopia Nation-state Ethnic</p> <p>(12) Highlights the role o Otto Bismarck in making of Germany..</p> <p>(13)Why did the Balkan region of Eastern Europe present the most serious of nationalist tension in Europe?</p> <p>(14) Describe the role of Giuseppe Mazzini as an Italian revolutionary.</p> <p>Pol.Science</p> <p>1.Why power sharing is desirable? Explain one reason.</p> <p>2.What factor led to a civil war in Srilanka?</p> <p>3.Compare the situation of Belgium and Srilanka considering their location,Size and cultural aspects.</p> <p>4.Describe the horizontal power sharing arrangements.</p> <p>5.Evaluate the power sharing system in India.</p>	
	Science	<p>PHYSICS</p> <p>Q1. Explain the laws of reflection and refraction.</p> <p>Q2. Define refractive index, centre of curvature, focal length, optical centre, pole, principal axis and aperture.</p> <p>Q3. Draw a ray diagrams for the followings: (a)For concave mirror: object beyond C, object between P&F, object at infinity. (b)For convex lens: object beyond C, object between C&F, object at F.</p> <p>Q4. At what distance from a concave lens of focal length 20cm, should a 6cm tall object be placed, so that it forms an image at 15cm from the lens? Also, determine the size of the image formed.</p> <p>Q5. An object 4cm in height, is placed at 15cm in front of a concave mirror of focal length 10cm. At what distance from the mirror should a screen be placed to obtain a sharp image of the object ?Calculate the height of the image.</p> <p>CHEMISTRY</p> <p>1. Intext and exercise questions of NCERT Chapter - Chemical Reactions and Equations</p> <p>2. To make a file on topic Types of reactions (i) Combination reaction (ii)Decomposition reaction</p>	

		<p>(iii) Displacement Reaction (iv) Double displacement reaction (v) Neutralization Reaction BIOLOGY Five questions from NCERT and any reference book related to photosynthesis, respiration, digestion and circulation each topic. Project work - Odd roll no - Cardiac disorders Even roll no. - Hormone in human and their functions</p>	
	Hindi	<p>Q1. रचना के आधार पर वाक्य भेद का चार्ट बनाएं। Q2. भक्ति कालीन पांच कविताएं लिखें और उनके पद्यांश प्रश्नों का उत्तर लिखें। Q3. पांच औपचारिक और पांच अनौपचारिक पत्र उचित प्रारूप में लिखें। Q4. पद्य पाठ -सूरदास के पद और गद्य पाठ - 'नेताजी का चश्मा' पाठ अंतर्गत 25- 25 बहुविकल्पीय प्रश्न उत्तर और अभ्यास प्रश्नों के उत्तर लिखें। Q5. पोर्टफोलियो एक फाइल में बनाएं।</p>	
	IT	<p>Communications Skills-II</p> <ol style="list-style-type: none"> 1. What is effective communication and why is it important? 2. How can you improve your listening skills? 3. How can you improve your speaking skills? 4. How can you improve your writing skills? 5. How can you use non-verbal communication effectively? 6. What is active listening and how can it help in communication? 7. How can you communicate effectively in a group or team setting? 8. How can you give constructive feedback to others? 9. How can you handle conflicts in communication? 10. How can you communicate effectively in a professional setting? <p>Self Management Skills</p> <ol style="list-style-type: none"> 1. What is self-management and why is it important? 2. How can you set goals for yourself and achieve them? 3. How can you manage your time effectively? 4. How can you prioritize your tasks and responsibilities? 5. How can you develop a growth mindset and continue to learn and improve? 6. How can you manage stress and maintain a healthy work-life balance? 7. How can you stay motivated and focused on your goals? 8. How can you manage your emotions and develop emotional intelligence? 9. How can you develop resilience and overcome setbacks? 10. How can you build and maintain positive relationships with others? 11. What is stress and how does it affect our body and mind? 	

		<p>12. How can you recognize the signs of stress in yourself and others?</p> <p>13. What are some common causes of stress and how can you avoid or minimize them?</p> <p>14. How can you manage your time effectively to reduce stress?</p> <p>15. How can you practice relaxation techniques, such as meditation or deep breathing, to reduce stress?</p> <p>16. How can you engage in physical exercise to reduce stress?</p> <p>17. How can you develop a support system of friends and family to help you cope with stress?</p> <p>18. How can you practice positive self-talk and develop a positive attitude to reduce stress?</p> <p>19. How can you learn to say no and set boundaries to reduce stress?</p> <p>20. How can you seek professional help if you are experiencing chronic stress or stress-related disorders?</p> <p>ICT Skills</p> <p>1. What is ICT and why is it important in today's world?</p> <p>2. How can you use search engines to find information online?</p> <p>3. How can you evaluate the credibility and reliability of online sources?</p> <p>4. How can you use word processing software to create and format documents?</p> <p>5. How can you use spreadsheet software to organize and analyze data?</p> <p>6. How can you use presentation software to create and deliver effective presentations?</p> <p>7. How can you use email and instant messaging to communicate effectively in a professional setting?</p> <p>8. How can you use social media and online platforms to build and maintain a professional network?</p> <p>9. How can you use online tools and resources to continue learning and improving your ICT skills?</p> <p>10. How can you stay safe and protect your privacy online, including creating strong passwords and avoiding scams?</p> <p>Note: Do all questions with proper diagrams in IT Practical Copy.</p>	
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Std. XIA

S.No.	Subject	Questions	Submission Date
	PHYSICS	<p><u>UNITS AND MEASUREMENT</u></p> <p>Q1. Write the dimensional formula of torque.</p> <p>Q2. Name the physical quantity for each of the following dimensional formula (i) (ML-1T-1), (ii) (M-1L3T-2) (iii) (ML2T-3) and (iv) (ML0T-2)</p> <p>Q3. In Poiseuille's equation, $V = \frac{\pi r^4 \Delta p}{8 \eta l}$, determine the dimension of η where p is pressure, r is radius V is volume per unit time of the liquid flowing out of a tube of length l</p>	

		<p>Q4. Find the value of the following up to the appropriate significant figures :</p> <p>(i) $53.312 - 53.3$ (ii) 2.02×23</p> <p>Q5. The resistivity ρ of the material depends on the length l, diameter d and resistance R of the wire. Derive the relation for resistivity using the method of dimensions.</p> <p>Q6. The escape velocity v of a body depends upon (i) the acceleration due to gravity g of the planet and (ii) the radius R of the planet . Establish dimensionally the expression for escape velocity v.</p> <p><u>MOTION IN A STRAIGHT LINE</u></p> <p>Q1. Draw position – time graph for (i) Negative velocity and (ii) Positive velocity.</p> <p>Q2. A train 500m long crosses a bridge of 1000m in 10s. Find the average speed of the train when it just crosses the bridge.</p> <p>Q3. Find the displacement of the particle when its velocity is zero.</p> <p>Q4. Suppose two trains A and B are moving with uniform velocity along parallel tracks in the same direction and the velocity of A and B is 60 km/h in the east direction and 65 km/h in the east respectively. Find the relative velocity of B w.r.t. A.</p> <p>Q5. The velocity of a particle is given by equation $v = 4 + 2(C_1 + C_2t)$ where C_1 and C_2 are constant. Find the initial velocity and acceleration of the particle.</p> <p>Q6. At $t = 0$, a particle is at rest at the origin. Its acceleration is 2m/s^2 for the first 3s and -2m/s^2 for next 3s, plot the acceleration versus time and velocity versus time graph.</p> <p>Q7. Two parallel rail tracks run North – South. Train A moves North with a speed of 54 km h^{-1} and train B moves South with a speed of 90 km h^{-1}. What is the:(i) relative velocity of B with respect to A? (ii) relative velocity of the ground with respect to B? (iii) velocity of a monkey as observed by a man standing on the ground (Given : The monkey is running on the roof of the train A with a velocity of 18 km h^{-1} with respect to train A and in a direction opposite to that of A)</p> <p>Q8. Define relative velocity of an object w.r.t. another. Draw position – time graphs of two objects moving along a straight line, when their relative velocity is (i) zero and (ii) non – zero.</p> <p><u>MOTION IN A PLANE</u></p> <p>Q1. If $A+B = A-B$, what is the angle between A and B?</p> <p>Q2. Two forces whose magnitudes are in the ratio 3:5, give a resultant of 28N. If the angle of their inclination is 60°. Find the magnitude of each force.</p> <p>Q3. Determine that vector which when added to the resultant of $A = 3\hat{i} - 5\hat{j} + 7\hat{k}$ and $B = 2\hat{i} + 4\hat{j} - 3\hat{k}$ gives unit vector along y – direction.</p> <p>Q4. The velocity of a particle is given by the equation, $v = 4t^2 + 5t + 6\text{ cm/s}$. Find (i) the change in velocity of the particle during the time interval between $t_1 = 2\text{s}$ and $t_2 = 4\text{s}$ (ii) the average acceleration during the same interval and (iii) the instantaneous acceleration at $t_2 = 4\text{s}$.</p>	
	CHEMISTRY	<p>Ch-1 some basic concepts of chemistry From end ex-Qn . 4,5,12,13,15,17,25,33,34,35,36</p> <p>Ch-2, Structure of atom From end ex-Qn. 2,5,6,7,8,10,11,14,15,33,53,54,60</p>	
	BIOLOGY	Exercise questions of chapter 1,2 and 3	

		Project work Odd roll no.- Circulatory system and Cardiac disease Even roll no - Hormones, gland and hormonal disorders	
	MATHEMATICS	Relation and Function Problems on Cartesian Product of sets Domain and Range of Relation Function Domain and Range of Function Problems on Axiomatic approach to set theory	
	Computer Science	Boolean Simplification 1. Simplify the Boolean expression: $AB + AB'$ 2. Simplify the Boolean expression: $(A+BC)(AC+B')$ 3. Simplify the Boolean expression: $(A+B')(AB+C)(AB'+C)$ 4. Simplify the Boolean expression: $(A' + B)(A + C)(A' + C)$ 5. Simplify the Boolean expression: $(AB + C)(AB' + CD)(BCD' + A')$ Circuit Design 6. State and prove De' Morgans theorem using truth table and boolean algebra both. 7. State and prove absorption law using truth table. 8. state principle of duality with example. 9. What is universal gates. Give example. Show circuit diagram to realise basic gates. 10. Draw truth table for 3-input XNOR and XOR gates.	
	English	1. Draft a notice in not more than 50-words for your school notice board, informing the students about the sale of old sports goods of your school. You are Rohini/Rohan the secretary of the sports club of Alka Public School, Indira Nagar Faridabad. 2. Secretary of the Activity Club of your school, draft a notice for the school noticeboard, informing students of the Inter-class Quiz contest being organised by the school. You are Nafisa/Pankaj. [Word limit: 50] 3. The increasing amount of time spent playing indoor games has been a major cause of decreasing the outdoor appearance of children. With this concern, write a speech to be delivered in the morning assembly in 150-200 words. You are Parag/Pragati. 4. You are Ankit/Ankita. You have to deliver a speech on the topic "Education Gives One Power". You have jotted down the following notes: Education trains mind—sharpens skill and abilities—Education: a source of power— improve self—be independent—earn money—ignorance to knowledge—removes superstition—develops a free spirit—important for women: gives them freedom from social ills— independent—responsible. Write your speech in 150-200 words. 5. Solve 2 unseen passages	
	PHYSICAL EDUCATION	LAB MANUAL WRITING FOR PRACTICALS WHAT TO WRITE IN LAB MANUAL:- 1. Write about(History, Fundamental skills,Playing area Dimension, Dimension of Playing Equipments, and some international Players) an Major Game like-	REOPENING DAY 15/6/2023

		<p>ATHLETICS, BASKETBALL, LAWN TENNIS, CRICKET, VOLLEYBALL, BADMINTON, SWIMMING, BOXING, HANDBALL ETC.</p> <p>2. KHELO INDIA/ FIT INDIA MOVEMENT</p> <p>OR</p> <p>SAI KHELO INDIA FITNESS TEST (FOR BOTH AGE GROUP). take help from this link- https://youtu.be/Be8h3ASTDw0?si=8epZEpFlmDYXwZsL</p> <p>3. SEWA PROJECT- make a stick file for sewa project where you have to click some pictures of yourself cleaning any Public places using proper safety equipment(Gloves & mask) or Planting trees. and make Report on that.</p>	
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Std. XIB

S.No.	Subject	Questions	Submission Date
1	ENGLISH	<p>1. Draft a notice in not more than 50-words for your school notice board, informing the students about the sale of old sports goods of your school. You are Rohini/Rohan the secretary of the sports club of Alka Public School, Indira Nagar Faridabad.</p> <p>2. Secretary of the Activity Club of your school, draft a notice for the school noticeboard, informing students of the Inter-class Quiz contest being organised by the school. You are Nafisa/Pankaj. [Word limit: 50]</p> <p>3. The increasing amount of time spent playing indoor games has been a major cause of decreasing the outdoor appearance of children. With this concern, write a speech to be delivered in the morning assembly in 150-200 words. You are Parag/Pragati.</p> <p>4. You are Ankit/Ankita. You have to deliver a speech on the topic “Education Gives One Power”. You have jotted down the following notes: Education trains mind—sharpens skill and abilities—Education: a source of power— improve self—be independent—earn money—ignorance to knowledge—removes superstition—develops a free spirit—important for women: gives them freedom from social ills—-independent—responsible. Write your speech in 150-200 words.</p>	

2	ECONOMICS	<ol style="list-style-type: none"> 1. Define economics and distinguish between Microeconomics and Macroeconomics. 2. What are the main causes of economic problems ? Explain. 3. What are the central economic problems ? Explain. 4. Write the difference between positive economics and normative economics. 5. Define Production Possibility Frontier and explain its main properties. 6. What is Marginal Opportunity Cost ? Explain with the help of a schedule ? 7. Why does PPC shift to right or left ? Explain with diagram. 8. What is “Law of Demand” ? Explain with a schedule and diagram. 9. What are the main factors that affect on the demand for a commodity ? Explain 10. Distinguish between the increase and decrease in demand ? Explain with diagram. 11. How is demand curve affected by the change in income level of consumers ? Explain 12. What are substitute goods and how is demand a goods affected by change in the price of substitute goods ? Explain 13. What do you mean by Normal goods and Inferior goods ? 14. Distinguish between Expansion of Demand and Contraction of Demand with diagram. 15. Why is Law of Demand not applicable for all kind of goods ? Give reasons and explain 	
111	Accts	Practical questions from chapter Accounting Equation	
4	Bst	Write questions and answer from chapter Business.	
	I.P	<p>What is a computer? What are the basic components of a computer? What is the difference between hardware and software? What is the role of an operating system? What is a file system and how does it work? What is computer memory and why is it important? What is a CPU and how does it function? What is the difference between RAM and ROM? What are input devices and output devices? What is a network and how does it work? What is the internet and how does it function? What is a web browser and how does it work? What is email and how does it function? What is a database and why is it important? What is a programming language and how does it work? What is an algorithm and why is it important? What is encryption and why is it important? What is a virus and how does it spread? What is a firewall and how does it work?</p>	

		What is cloud computing and why is it important?	
	PHYSICAL EDUCATION	<p>MAKE AN MINI SCHOOL PROJECT MODEL OF ANY MAJOR GAMES PLAYING AREA(GROUND & COURT)</p> <p>LIKE-</p> <p>BASKETBALL COURT CRICKET GROUND FOOTBALL GROUND LAWN TENNIS BADMINTON COURT HANDBALL COURT SWIMMING POOL VOLLEYBALL COURT</p> <p>EACH STUDENTS HAVE TO MAKE THEIR MODEL (NO GROUPING)</p> <p>TAK HELP FROM THIS LINK -https://www.youtube.com/results?search_query=school+models+on+sports+ground</p>	REOPENING DAY 15/6/2023

Std. XIIA

S.No.	Subject	Questions	Submission Date
	PHYSICS	<p>Q1. Draw an equipotential surface: (a) In a uniform electric field (b) For a point charge $q < 0$.</p> <p>Q2. How will the capacitance of a capacitor change when a dielectric slab is introduced between the plates of a capacitor?</p> <p>Q3. How does the resistivity of a conductor depend upon the number density of free electrons and temperature?</p> <p>Q4. Show mathematically that the potential at a point on the equatorial line of an electric dipole is zero.</p> <p>Q5. A hollow metal sphere of radius 5cm is charged such that the potential on its surface is 10V. What is the potential at the center of the sphere?</p> <p>Q6. A charge of 12 C is given to hollow metallic sphere of radius 0.1m. Find the potential at (i) the surface of the sphere (ii) center of the sphere.</p>	REOPENING DAY 15/6/2023

		<p>Q7. Calculate the Coulomb force between a proton and an electron separated by 0.8×10^{-15} m.</p> <p>Q8 Calculate the Value of electric field exactly balancing the weight of an electron.</p> <p>Q9. Two capacitors 3 farad & 6 farad are connected in series with a 6 V battery. Which one will have higher potential?</p> <p>Q10. If the plates of a charged capacitor are further separated while the capacitor is still connected to the charging battery, what will happen to the energy?</p> <p>Q11. How does a torque affect the dipole in an electric field?</p> <p>Q12. 27 drops of same size are charged at 220V each. They collapse to form a bigger drop. Calculate the potential of the bigger drop.</p> <p>Q13. Draw a plot showing the variation of electric field & potential with distance due to a point charge.</p> <p>Q14. A wire of resistance 5 ohm is drawn out so that its length is increased to twice its original length. Calculate its original resistance.</p> <p>Q15. A lamp of 100 W works at 220 volt calculate its resistance & current capacity?</p> <p>Q16. Why are thick copper wires used as connecting wire?</p> <p>Q17. Why is the use of a potentiometer preferred over that of a voltmeter for measurement of E.M.F of a cell?</p> <p>Q18. Define resistivity of the material of a wire. State its S.I. unit.</p> <p>Q19. The storage battery of a car has an E.M.F. of 12 V. If the internal resistance of the battery is 0.4 ohm, what is the maximum current that can be drawn from the battery?</p>	
	CHEMISTRY	<p>Ch-1 solution, All intext questions, from end ex-qn-4,5,6,9,16,17,18,19,21,22,32,33,36,41</p> <p>Ch-2 Electrochemistry All intext questions From end ex-Qn.-5,7,8,9,11,12,13,16</p> <p>Ch-3, Chemical kinetics All intext questions From end ex-Qn.8,10,11,12,20,26,28,30</p>	

BIOLOGY		<p>exercise questions of 1. Sexual reproduction in plants 2. Human reproduction Five extra questions from each chapter from reference book Project work - Odd roll no. -STD Even roll no. ART</p>	
MATHEMATICS		<p>Relation and Function Problems on Equivalence Relation Types of Function Problems on Types of Function Problems from R D Sharma based on Bijective Function Problems on operation of Matrices Adjoint and Inverse of Matrix Problems based on Minor and cofactors of Determinant</p>	
Computer Science		<ol style="list-style-type: none"> 1. All unsolved questions of Functions Chapter. 2. What is a function in Python? 3. What are the advantages of using functions in Python? 4. How do you define a function in Python? 5. How do you call a function in Python? 6. What are parameters\arguments in Python functions? 7. What is the return statement in a Python function? 8. What is the purpose of the global keyword in Python functions? 9. Can Python functions have multiple return statements? 10. Can you pass a function as an argument to another function in Python? 11. What is recursion in Python functions? 12. Can you have optional arguments in Python functions? 13. What is the difference between positional arguments and keyword arguments in Python functions? 14. How do you define a default value for arguments in a Python function? 15. How do you pass arguments to a Python function using keyword arguments? 	
PHYSICAL EDUCATION		<p>MAKE A ATTRACTIVE CHART PROJECT BY WRITING ANY ONE OF THE FOLLOWING GIVEN BELOW-</p> <ol style="list-style-type: none"> 1. KHELO INDIA MOVEMENT AND ITS COMPETITIONS (YOUTH GAMES, UNIVERSITY GAMES, WINTER GAMES) 2. OLYMPIC MOVEMENT 3. 4 (2 MALE - 2 FEMALE) INDIAN ATHLETES AT INTERNATIONAL COMPETITIONS WITH PICTURES. 4. NEWTON'S LAW OF MOTIONS WITH EXAMPLES (SPORTS DOMAIN). 	

		<p>5. YOGA- HOW IT CAN HELP IN IMPROVING LIFESTYLE .</p> <p>6. HEALTH RELATED PHYSICAL FITNESS COMPONENTS.</p> <p>7. SKILL RELATED PHYSICAL FITNESS COMPONENTS.</p> <p>8. SPORTS NUTRITION - TYPES OF VITAMINS AND ITS SOURCES.</p>	
	English	Questions	
		<p>1. Read English newspaper daily.</p> <p>2. Write 10 editorials date wise in editorial copy.</p> <p>3. Read the novel 'The Alchemist' by William Golding.</p> <p>4. Write the book review of 'The Alchemist' in 1000 words.</p> <p>5. Make note of the first three chapters of Flamingo.</p> <p>1. Write fifteen Figure of Speeches and explain them with examples.</p> <p>2. Write 50 idioms and phrases and use them in sentences.</p>	

Std. XIIB

S.No.	Subject	Questions	Submission Date
1	ENGLISH	<p>1. Read English newspaper daily.</p> <p>2. Write 10 editorials date wise in editorial copy.</p> <p>3. Read the novel 'The Alchemist' by William Golding.</p> <p>4. Write the book review of 'The Alchemist' in 1000 words.</p> <p>5. Make note of the first three chapters of Flamingo.</p> <p>3. Write fifteen Figure of Speeches and explain them with examples.</p> <p>4. Write 50 idioms and phrases and use them in sentences..</p>	

2	ECONOMICS	<ol style="list-style-type: none"> 1. Define circular flow of income and explain its three different phases ? 2. What do you mean by Stock and Flow variable ? Explain with examples. 3. Explain circular flow of income in two sector model economy with diagram. 4. Define Domestic Territory and state the regions which are included in domestic territory other than the areas in political boundary. 5. Distinguish between the Final goods and Intermediate goods. 6. What is Production Boundary ? Explain with Diagram. 7. What is capital goods and are all producers good capital goods ? 8. What is Depreciation and what its main causes ? Explain 9. What is NFIA and what are its main component ? 10. What are the different related aggregates of Domestic & National Income ? Explain. 11. Solve the Numerical questions No. 7 to 11 of Page No. 3.17 12. Define the Terms Value of Output, Value Added and Intermediate Consumption. 13. What are the major precautions of Value Added Method of calculating National Income ? 14. What are the main components of estimating National Income by Income Method ? 15. What are the precautions of estimating National Income by Income Method ? 16. Solve the Numerical questions of No. 8-11, Page No. 4.105 17. How does Commercial Banks can create more credit from a less amount of deposit received ? 18. How does Central Bank functions as a Govt. Bank ? Explain. 19. How does Central Bank function as in lender of last resort and Clearing House ? 20. Explain the credit controlling function Central Bank through quantitative measures.Explain 	
2	Accts	1) Practical question from DK GOEL	
3	BST	QUESTION AND ANSWER FROM CHAPTER MANAGEMENT	
	I.P	<ol style="list-style-type: none"> 1. What is a Pandas Series? 2. How can you create a Pandas Series from a Python list? 3. What is the difference between a Pandas Series and a NumPy array? 4. How can you access elements of a Pandas Series? 5. How can you add a new element to a Pandas Series? 	

6. How can you remove an element from a Pandas Series?
7. How can you get the length of a Pandas Series?
8. How can you get the maximum and minimum values of a Pandas Series?
9. How can you get the sum and average of a Pandas Series?
10. How can you apply a function to each element of a Pandas Series?
11. How can you filter a Pandas Series based on a condition?
12. How can you sort a Pandas Series?
13. How can you merge two Pandas Series?
14. How can you replace an element in a Pandas Series?
15. How can you check if an element is present in a Pandas Series?
16. How can you convert a Pandas Series to a Python list?
17. How can you convert a Pandas Series to a NumPy array?
18. How can you rename the index of a Pandas Series?
19. How can you set a name for a Pandas Series?
20. How can you create a Pandas Series from a CSV file?

Data Frame

1. What is a Pandas DataFrame?
2. How can you create a Pandas DataFrame from a dictionary?
3. How can you create a Pandas DataFrame from a list of lists?
4. How can you access columns of a Pandas DataFrame?
5. How can you access rows of a Pandas DataFrame?
6. How can you add a new column to a Pandas DataFrame?
7. How can you remove a column from a Pandas DataFrame?
8. How can you add a new row to a Pandas DataFrame?
9. How can you remove a row from a Pandas DataFrame?
10. How can you get the shape of a Pandas DataFrame?
11. How can you get the size of a Pandas DataFrame?
12. How can you get the data types of the columns in a Pandas DataFrame?
13. How can you filter a Pandas DataFrame based on a condition?
14. How can you sort a Pandas DataFrame by one or more columns?
15. How can you merge two Pandas DataFrames?
16. How can you join two Pandas DataFrames?
17. How can you group a Pandas DataFrame by one or more columns?

		<p>18. How can you apply a function to each row or column of a Pandas DataFrame?</p> <p>19. How can you rename the columns of a Pandas DataFrame?</p> <p>20. How can you create a Pandas DataFrame from a CSV file?</p>	
	PHYSICAL EDUCATION	<p>MAKE A ATTRACTIVE CHART PROJECT BY WRITING ANY ONE OF THE FOLLOWING GIVEN BELOW-</p> <ol style="list-style-type: none"> 1. KHELO INDIA MOVEMENT AND ITS COMPETITIONS (YOUTH GAMES, UNIVERSITY GAMES, WINTER GAMES) 2. OLYMPIC MOVEMENT 3. 4 (2 MALE - 2 FEMALE) INDIAN ATHLETES AT INTERNATIONAL COMPETITIONS WITH PICTURES. 4. NEWTON'S LAW OF MOTIONS WITH EXAMPLES (SPORTS DOMAIN). 5. YOGA- HOW IT CAN HELP IN IMPROVING LIFESTYLE . 6. HEALTH RELATED PHYSICAL FITNESS COMPONENTS. 7. SKILL RELATED PHYSICAL FITNESS COMPONENTS. 8. SPORTS NUTRITION - TYPES OF VITAMINS AND ITS SOURCES. 	REOPENING DAY 15/6/2023