

APS CLEMENT TOWN, DEHRADUN WINTER VACATION HOLIDAY HOMEWORK (2024-25) CLASS- IX

1	ENGLISH	
		Grammar- Do Integrated Grammar Exercise on pages 340 (Q 1 to 10) Pg 346 (Q1, Q2, Q3) Pg 361 (Q1,2, 3,4 and5) Pg 384 (Q3) of the grammar book.
		 Writing Skill- Imagine you are the protagonist from the chapter "A House is Not a Home". You have recently shifted in your newly built house. Write a paragraph in about 100-120 words sharing advice you would give to teenagers going through a difficult time. You've just finished reading the chapter "Reach for the Top". Based on the chapter prepare a dialogue between Maria Sharapova and Santosh Yadav, mentioning what motivated them to achieve success. Revise and learn lessons, poems and Grammar topics taught in the class so far.
		Note - Do Holiday Homework in the English Notebook
2	HINDI	<u>लिखित</u>
		प्रश्न-1) आपकी कक्षा में एक नए अध्यापक पढ़ाने आए हैं जो कि बहुत अच्छा पढ़ाते हैं।
		उनके विषय में परिचयात्मक सूचना देते हुए अपने मित्र को लगभग 80-100 शब्दों में एक
		দর লিন্ডিए।
		प्रश्न-2) 'मनोरंजन का बदलता स्वरूप' विषय पर एक अनुच्छेद लिखिए ।
		प्रश्न-3) अपने-अपने जीवन लक्ष्य के बारे में दो मित्रों की बातचीत को संवाद के रूप में निम्लिप
		प्रायश प्रश्न-4) व्याकरण परिचय - पुनरावृत्ति कार्य पत्र- 9 (प्रश्न 2,3,4) कार्य पत्र - 14(प्रश्न - 1,2,) हिन्दी की कॉपी में लिखिए।
		प्रश्न 5) आपको अपनी हिंदी की पाठ्य पुस्तक का कौन-सा पाठ सबसे अच्छा लगा और क्यों? विस्तार से लिखिए।
		• <u>नोट</u> - सभी प्रश्न अपनी हिंदी की कॉपी में कीजिए।

3	MATHEMATICS	Q1. Factorise:a) $(2x + 3y)^3 - (2x-3y)^3$ b) $x^4 - 3x^2 + 2$
		Q2. Two sides of a triangular field are 85m and 154m in length and its perimeter is 324m.Find the area of the field and the length of the perpendicular from the opposite vertex on the side measuring 154m
		Q3 Draw the graph of the equation $3x+2y=12$. At what point does the graph cut the x-axis and the y-axis?
		Q4 In a triangle ABC, the sides AB and AC are produced to P and Q. The bisectors of /_PBC and /_QCB intersect at point O. Prove that /_BOC=90 ⁰ - $1/2$
		Q5. The radius and height of a right circular cone are in the ratio of $5:12$ and its volume is 2512 cm^3 . Find the curved surface area and the total surface area of the cone.
		Q6. Find the value of a and b for which for which $(x-1)$ and $(x+3)$ are two factors of polynomial x^3 - ax^2 - $13x$ + b
		Q7. A circular park 20 m is situated in a colony. Three boys Ankur, Syed and David are sitting at equal distance on its boundary each having a toy telephone in his hands to talk to each other, find the length of the string of each phone.
		Q8.(i)State the Mid point Theorem (ii)Show that the line segment joining the mid points of the opposite sides of a quadrilateral bisect each other. Q9. A solid cylinder has total surface area of 462 sq cm. Its curved surface area is one third of its total surface area .Find the volume of the cylinder.
		Q10. Factorize: $x(x-y)^3 + 3x^2y(x-y)$
		Q11. Naresh observed that a juice seller is having a cylindrical vessel of base diameter 25 cm and height 40 cm and it is



		following frequency distribution	on table form:		
		140 130 120 0 80 70 90 90 90 90 90 90 90 90 90 90 90 90 90			
		Height(incm) 130-135	135-140	140-145	145-150
		No.of girls 10	13	9	12
		Based on the information, answ (a)Find the class mark of 140-1	ver the followin	g questions:	
		 (b) What is the width of the c (c) How many girls are of hei Q14.Make a mind map of Ch-1 Q15.Make a formulae chart of using nets. 	lass? ght 140 cm and 0 Circles `Ch-11 Surface	above? Areas And Volu	mes by
4	SCIENCE	 What are isotopes? Find its vario What is apiculture? How is it im Frame 15 questions from chapte natural resources and write their an Question) Solve TEN Numericals from cha 5. Draw MIND MAPS for Chapter Structure Of an Atom, Atoms and p 	us applications portant in our li rs Structure of swers also.(incl pter - GRAVIT s(Gravitation a molecules)	in our daily life ves? atom and Improv luding MCQs, or ATION in physion nd Work and En	vement in ne Case Study cs notebook. ergy, The
		NOTE- Learn and write work done	in notebook.		
5	SOCIAL SCIENCE	 Make flow charts on the following a) Events of French revolution beg of Napoleon. b) Causes of French Revolution. c) Ways in which Hitler dismantled 	ng topics: inning from me l democratic str	eting of Estate C ucture.	General to Rise
		 d) Longitudinal and regional divisi e) Targeted poverty Alleviation pro f) Factors influencing the climate of 2, source-based questions. 	on of Himalaya ograms launcheo f India.	I by government	of India.
		Case Study 1: The Monsoon, unlik pulsating in nature, affected by diff it, on its way over the warm tropica between 100-120 days from early J arrival, the normal rainfall increase days. This is known as the 'burst' of	e the trades, doe ferent atmosphe al seas. The dura fune to mid-Sep as suddenly and of the monsoon	es not have stead ric conditions er ation of the mon otember. Around continues consta and can be distin	ly winds but is acountered by soon is the time of its antly for several aguished from

the pre-monsoon showers. The monsoon arrives at the southern tip of the Indian peninsula generally by the first week of June. Subsequently, it proceeds into two-the Arabian Sea branches and the Bay of Bengal branch. The Arabian Sea branch reaches Mumbai about ten days later on approximately the 10th of June. This is a fairly rapid advance. The Bay of Bengal branch also advances rapidly and arrives in Assam in the first week of June. The lofty mountains cause the monsoon winds to deflect towards the west over the Ganga plains. By mid-June, the Arabian Sea branch of the monsoon arrives over Saurashtra-Kuchchh and the central part of the country. The Arabian Sea and the Bay of Bengal branches of the monsoon merge over the northwestern part of the Ganga plains. Delhi generally receives the monsoon showers from the Bay of Bengal branch by the end of June (the tentative date is the 29th of June). By the first week of July, western Uttar Pradesh, Punjab, Haryana, and eastern Rajasthan experience the monsoon. By mid-July, the monsoon reaches Himachal Pradesh and the rest of the country.

- 1. Mention three important features of monsoon.
- 2. What so you understand by Burst of monsoon?
- 3. Name the two branches of monsoon.
- 4. From which branch of monsoon Delhi generally receive the monsoon showers?
- Two statements are given in the question below as Assertion (A) and Reason (R). Read the statements and choose the appropriate option. Assertion (A) Monsoon generally reaches the Southern tip of the Indian Peninsula during the first week of June.
- 6. Reason (R) Delhi receives rainfall from Bay of Bengal branch.
 - (a) Both A and R are true and R is the correct explanation of A
 - (b) Both A and R are true, but R is not the correct explanation of A
 - (c) A is true, but R is false
 - (d) A is false, but R is true

Case Study 2: Poverty is a significant challenge faced by many countries, including India. It refers to the lack of basic necessities and resources required for a decent standard of living. In India, poverty is measured using a poverty line, which is the minimum level of income required to meet the essential needs of an individual. Poverty can be classified into two categories: rural poverty and urban poverty. Rural poverty is primarily caused by factors such as low agricultural productivity, lack of access to credit, unemployment, and landlessness. Urban poverty, on the other hand, is attributed to factors like unemployment, low wages, lack of skill development, and migration from rural areas. Poverty not only affects the material well-being of individuals and families but also leads to social exclusion and limited access to education, healthcare, and other essential services. Addressing poverty requires comprehensive measures such as poverty alleviation programs, inclusive economic growth, skill development, and social welfare initiatives.

- 1. How is poverty measured in India?
- 2. What are the two categories of poverty in India?
- 3. What are some factors contributing to rural poverty in India?

		4. What are the factors attributed to urban poverty in India	?
		5. Besides material well-being, what are some consequence	es of poverty?
		Case Study 3: In the late 19th century, Europe witnessed growin among the working class due to their poor working conditions a Industrialization led to the rise of factories and a massive increa of industrial workers. However, these workers faced long worki wages, and hazardous working conditions. As a result, various s began to emerge, advocating for a more equitable society where	ng discontent nd low wages. se in the number ng hours, low ocialist ideas the means of
		production would be owned and controlled by the workers them ideas gained traction among the working class, leading to the fo socialist political parties and trade unions across Europe.	selves. These rmation of
		 What was the main cause of discontent among the working 19th-century Europe? Which factor contributed to the rise of socialist ideas in the second seco	ng class in late
		period?	Europe during tins
		 3. What did socialist ideas propose regarding the means of 4. What was the impact of socialist ideas on the working cl a) They led to increased job opportunities. 	production? ass?
		b) They resulted in higher wages for workers.	
		c) They gave rise to socialist political parties and trade u	nions.
		d) They caused a decline in the number of industrial wor	kers.
		NOTE: TO BE DONE IN FAIR NOTE BOOK	
6	SKILLSUBJECT	Q1. Explain Direct tax and Indirect tax.	
		Q2. Difference between financial planning and planning?	
	INTRODUCTION TO FINANCIAL MARKETS	Q3. Activity Imagine you are doing professional animation course for two m hostel, your father gives you Rs. 10000/- a month for all your ex get a pocket money of Rs.500 per month.	onths staying in a spenses, you also
		Your expenses are as follows:	
		Your budget for the month	
		Money coming in: Money given by father: Rs. 10000	
		Pocket Money: Rs.500	
		Total Money (A) : <u>Rs. 10500</u>	
		Money going out:	
		Hostel fees	Rs3200
		Breakfast, Lunch & Dinner	Rs2500
1		Iransport to College Bus fees Total Fixed Expense	Rs. 750 Rs6450

	Variable Expenses: Laundry Visiting places Amusement park / Movies Shopping Total Variable Expenses Total Expense (B) (Fixed+Variable) = (6450+4000)=10450 Any money left over (C) = Rs. 50 (A-B) What would you do if you wanted to purchase a gift to your parents worth Rs.500? Explain by Showing complete budget in your notebook.	Rs.800 Rs.1500 :Rs.500 :Rs.1200 :Rs.4000
ARTIFICIAL INTELLIGENCE	 Write a program to print the thought of the day. To accept the name and address of the user and display it. To accept side of the square and display the area of the square. To accept length and breadth of the rectangle from user and display their sum. To accept two numbers from user and display their sum. To accept two numbers from user and display the remainder. To accept hours from the user and display equivalent minutes. To create a list containing elements [7,8,9,10,11] and add the eletto the list. To create a list containing eight numbers. Replace the third and number with the square of the number to their immediate left. Create a python list with first four odd numbers and display the lements in the descending order. Create a list of vegetables (any seven). Use range functions to pelement of the list. Create a list of prands of clothes and use the functions to remo element from the list. Write a program using any loop to print table of 4. Write a program to accept a number from user from 1 to 20 ar whether a number is even or odd. 	ement 12 fifth ese print the the list. ve the nd print
INFORMATION TECHNOLOGY		

7.	Crea	save the table	e.				and records of
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	c. Dat	te of Birth		d	Postal Address		
6	F-m	ail Address		u	. Postal Address		
493 97	-						
+	Ente	er the records	t 5 x 5. s of vour f	ive friends.			
	+ A	dd the title at t	he top: Frie	ends Databa	se. Use the font	styles to b	eautify the title.
	• In re	sert two colun spectively.	nns after t	he column (Date of Birth in	the table	and add the fie
	t In	sert three rows	s before las	t row.			
-	- Sp	lit the table fro	om 4th row				
	Sa	ve the table.					
8. C b	lick o ox.	n the cells B20), F9, E1, A2	4, G13 one	after the other a	nd observ	e the display of
9. V	/rite 1	the cell addres	ses of the f	ollowing:			
a.	Fin	st row and firs	t column .				
b.	Fire	st row and 100	0 th column				
c.	Firs	st column and	20 th row	••••••			
c. 10. W	Firs rite t	st column and he range for th	20 th row				
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c. 10. W a. b.	Firs rite t All All	st column and he range for th cells of row 6 cells of colum	20 ^m row ne following from colur n D from r	g: nn C to H. ows 3 to 15			
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Do the following on the data:

- Calculate the sum of all quarters in Actual Sales.
- Validate cells B3 to G6 so that they can contain only numbers.
- Calculate the total sales of each quarter, total actual sales, and total projected sales in row
 - Find out which quarter has given the highest and lowest sale.
 - Create a column chart to compare the region-wise sales of four quarters.
 - Create a line chart to compare the region-wise actual and projected sales.

Create a new presentation as shown in the figure:

- First open a blank presentation.
- Type the Title Heading- Healthy Habits.
- Add a new slide.
- On the second slide, type the heading Healthy Habits.
- Type the text as shown in the figure
- Insert the picture.
- Choose any theme by clicking on the 'Master Pages' icon and selecting any of the available 'Available for Use' list.



Create a presentation on the topic "Digital Etiquette" by using the etiquette given below



NOTE-

- For better clarification of pictures refer to page number (345-348) • of your textbook.
- Individual student will make practical file •
- Output will be in printout format. •
- Spiral binding of the practical file (hardcopy) should be submitted • on 13 january

7	SANSKRIT	1.संस्कृत भाषा में एक से लेकर 100 तक गिनती लिखिए और याद भी कीजिए।
		2 पुस्तॅक शेमुषी से पाठ भारतीवसंतगीतिः तथा स्वर्ण काकः के प्रश्न उत्तर याद
		कीजिए। ँ
		3. निम्नलिखित वाक्यों का संस्कृत में अन्वाद कीजिए-
		1.श्याम कल स्कूल जाएगा ।
		2.रमा स्वादिष्ट खाना बनाती है ।
		3.पेड़ पर आम लगे हैं ।
		४.मोहन प्रतिदिन उद्यान में घूमता है।
		5. निरंजन सुंदर नृत्य प्रस्तूत केरेगा।
		 शिक्षिका ने अच्छा आचॅरण करने की शिक्षा दी थी।
		7.हमें अपने पर्यावरण की रक्षा करनी चाहिए ।
		8.सभी को दूसरों के भले के लिए इच्छा रखनी चाहिए।
		9.संसार में सेभी के प्रति संवेदना का होना आवश्यक है।
		10. आलस्य हमारा सबसे बड़ा शत्रू है।

NOTE-

Revision test will be conducted from the holiday homework given, from 15 Jan 2025