

Under the Aegis of the DPS Society, New Delhi 10+2, Affiliation No. - 2430211

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## SESSION : 2024-25 CLASS: XII A (Science)



SUBJECTS	HOMEWORK
ENGLISH	(1) Project- Interview Based Research- Evolving food habits in my Neighbourhood
	Frame a Questionnaire for an interview of your neighbors- at least two with pictures. Indicate their feedback with the help of statistics, pictures and posters.
	(2) Prepare a Report on the basis of the interview.
	(3) Deep Water – Make a table highlighting the name of
	swimmers, nationality and their achievements and honours and titles conferred on them.
	(4) The Rattrap – Make a Christmas tree
	Depict the character traits of the protagonists of the story highlighting the essence of Christmas spirit. (5) Job Application Letter
	M/s Tenant Technologies, Swetnagar, Bengaluru has advertised on Jobs.com some positions of Web-content Managers. Write a job application to offer your services. Express your willingness to work

	with them and invent all the other necessary details. Enclose your		
	Bio- data as well.		
	(6) You have read 'Adventure' by Jayant Narlikar in Hornbill in		
	class- XI and the The Third Level by Jack Finney in class-XII.		
	Compare the interweaving of fantasy and reality in the two stories.		
	Students, get the separate word file containing English		
	comprehension below.		
PHYSICS	(1) Investigatory project : Complete investigatory project in		
	laced file with hard boards and interleaf pages.		
	P1) To design an appropriate logic gate combination		
	for a given truth table(FOR COMPUTER STUDENTS)		
	P2 ) To study the variation of current flowing in a		
	circuit containing an LDR. (FOR NON-COMPUTER STUDENTS)		
	(2) Activity Copy: (in laced file with hard boards and interleaf		
	pages.) Activities from Section A and 3 from section B		
	pages./ Activities from Section A and S from Section B		
	(3) NCERT Exercise Questions (IN CHANNEL FILE , A4 SHEETS)		
	CH1 (1.6-1.20) and CH2 (2.1-2.11)		
CHEMISTRY	(1) NCERT Exercise Questions (IN CHANNEL FILE , A4 SHEETS)		
	10.6-10.10 AND 10.14		
	10.6-10.10 AND 10.14 (2) Investigatory project : (CHANNEL FILE)		
	<ul> <li>10.6-10.10 AND 10.14</li> <li>(2) Investigatory project : (CHANNEL FILE)</li> <li>P1) Presence of oxalic ions in guava fruit and different stages</li> </ul>		
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	(3) 30	D Questions from Ch1,2,3 (Download the pdf of questions		
	separately given below)			
		0 2 26		
MATHEMATICS	1.	Prove that : $\sin^{-1}\frac{8}{17} + \sin^{-1}\frac{3}{5} = \cos^{-1}\frac{36}{85}$		
	2.	Prove that: $\tan^{-1} \left\{ \frac{\sqrt{1+x} - \sqrt{1-x}}{\sqrt{1+x} + \sqrt{1-x}} \right\} = \frac{\pi}{4} - \frac{1}{2} \cos^{-1} x$		
	3.	Let f: W $\rightarrow$ W : f(x) = { $(n-1)$ , when n is odd $(n+1)$ , when n is even }		
	4.	Find the domain and range of the real function defined by		
		$f(x) = \frac{1}{1-x^2}$		
	5.	Let A = { 1,2,3,4,5,6,7,8,9} and R be a relations in A $\times$ A ,		
		defined by (a ,b) R (c ,d) $\Leftrightarrow$ a +d = b + c for all (a ,b) and		
		(c ,d) $\in$ A ×A. Prove that R is an equivalence relations.		
		Also obtain the equivalence class determined by (2,5).		
	Maths P	ractical activities:		
	Activity-1: To verify that the raltion R in the set L of all lines in a plane, de by R={(I,m):I normal to m} is symmetric but neither reflexive no transitive.			
		2: that the relation R in the set L of all lines in a plane, by R={(I,m): I parallel to m} is an equivalence realtion.		
	Activity- To demo	3: Instrate a function that is not one-one but onto.		
	Activity-4: To demonstrate a function that is one-one but not onto.			
		5: the graph of arcsin(x), using the graph of sin x and trate the concept of mirror reflecgtion (about line y=x).		
	Activity- To explo circle.	6: re the principal value of the function arcsin(x) using a unit		

	Activity-7:
	To sketch the graphs of a^x and log(a)x, a > 0, a != 1 and examine
	that they are mirror images of each other.
	Activity-8:
	To establish a relationship between common logarithm (to the
	base 10) and natural logarithm (base e) of the number x.
	Activity-9:
	To analytically find the limit of a function f(x) at x = c and also to
	check the continuity of the function at that point.
	Activity-10:
	To verify that for a function f to be continuous at given point x, dy =
	f(x + dx) - f(x)   is arbitrarily small provided dx is sufficiently small.
COMPUTER	Make your group project file for CBSE board examination.
SCIENCE	