

HOLIDAY HOMEWORK

CLASS –XII SCIENCE SESSION 2025-26

SUBJECT	HOMEWORK	INSTRUCTION
ENGLISH	Topics for English Project for Class XII:	1. On the first page
		* Write the TOPIC*
	1. Impact of Social Media on Youth.	* Class Section*
	2. Importance of Environmental Conservation.	* Board Roll No*
	3. Role of Education in Empowering Women.	(Not to be filled)
	4. Effects of Globalization on Indian Culture.	* Name Of the School*
	5. Significance of Mental Health Awareness.	Submitted to- *Your respective subject
	6. Influence of Technology on Human	teacher's name
	Relationships.	* Submitted by- your name
	7. Value of Cultural Heritage in Modern	(First page to be made for the chosen topic
	Society.	of the project)
	8. Challenges of Climate Change and	
	Sustainable Living.	2. On the second page- write
	9. Power of Storytelling in Shaping Identity.	Acknowledgement.
	10. Impact of Artificial Intelligence on Future	ACKNOWLEDGEMENT
	Careers.	
	11. 'Escapism' with reference to The Third	I would like to take this opportunity to
	Level.	express my sincere gratitude to my Principal
	12. Fear of Separation, Death	Mrs. Deepti Singh for giving me the
	13. Child Labour	permission and opportunity for doing my
	14. Plight of Homeless People.	project.
	(Any one)	Secondly I would like to thank my teacher
		Mrs for her valuable guidance ,
		support and suggestions throughout the
		course of the project , on the topic ''
		which also helped me in doing a lot of
		research and I came to know about so many
		new things .
		Last but not the least I would like to thank
		my parents and mends who helped me a lot
		in finishing this project within the stipulated
		ume. The project work has not only
		improved my listoning and speaking skills
		improved my insteming and speaking skins.
		3. Certificate of Completion

		 (The format of the first three pages will be shared once the work is done and shown to the teacher after summer break.) 4. Now write the matter and content along with some pictures related to your topic. 5. Reflection: The effort you have put in and what you have experienced. * Strengths , weaknesses , anxieties and errors during research . 6. On the last page- write Bibliography (Source of Information)
		Note that this project is for the final assessment so make the project in very neat and proper manner . The project has to be made individually. The project should be made in 25 pages handwritten. * Viva from the project will be taken individually.
PHYSICS	INVESTIGATORY PROJECT	 Spiral binding project with all required points according the topic. Front pages are attached with this document. Kindly check name, year, class and language. A4 size paper should be used. Font - Times new roman or Arial (same for all over the project). Line spacing 1.5. Images (according to requirement) should be properly cropped, clearly visible, enclosed with a single line black border.

		6 Page no Should be
		0. 1 age no. Should be
		mentioned on each page at
		bottom on right hand side.
		7. Submit for correction
		with rough printout at first.
		8. Do not paste screen
		shots.9.
		You can perform
		experiment in school and
		paste the scanned copy in
		project.
CHEMISTRY	1. To study the presence of oxalate ions	INSTRUCTIONS FOR PREPARING
	in guava fruit at different stages of	PROJECT:
	ripening. POLU NO: $(01, 03, 05, 07)$	1 Coloured nictures related to the content
	2 To study quantity of casein present in	is must.
	different sample of milk.	2 Observation table, calculation, result
	ROLL NO: (02,04,05,06)	should be mentioned.
	3. Prepration of soyabean milk and its	3 Follow the given sequence for filing:
	comparison with the natural milk with	Cover page, certificate ,
	respect to curd formation, effect of	acknowledgement, index content and
	temperature etc.	Bibliography .
	KOLL NO. (13,10,15,17)	
	analysis of different brands of cold	
	drinks available in market	
	ROLL NO: 14,16,18,20	
	5. Study of effects of cold antacids.	
	ROLL NO : 24,26,28,30	
	6. Study of foaming capacity of soap.	
	ROLL NO :(25,27,29,31)	
	7. Study of amount of caffeine present in	
	$\mathbf{ROI I NO} (32, 34, 23, 10)$	
	8 Study and analysis of choclates	
	ROLL NO. (33,35,21)	
	9. Study of dyeing of fabric.	
	ROLL NO :(36,38,09,11)	
	10. Study of Rayon fibre.	
	ROLL NO: (37,12,22)	
	11. Analysis of coconut water.	
	$\frac{12}{12} \text{ Analysis of honor}$	
	ROLL NO. (39.41 42)	

	F t 0 0 7	
MATHEMATICS	100	
	$A = \begin{bmatrix} 0 & 1 & 0 \end{bmatrix}$	
	1 If $a b - 1$ then A^2 is equal	
	a) a null matrix b) a unit matrix	
	c) – A d) A	
	2. If A and B two matrices such that	
	$AB=A$ and $BA=B$, then B^2 is equal to	
	a) B b) A	
	c) 1 d) 0	
	3. If A and B are two matrices such that	
	$AB=B$ and $BA=A$, then $A^2 + B^2$ is equal	
	a) $2AB$ b) $2BA$	
	$\begin{array}{c} c \end{pmatrix} A + B \\ c \end{pmatrix} A + B \\ c \end{pmatrix} A B \\ c \end{pmatrix} A$	
	A If the matrix AB is a null matrix then	
	4. If the matrix AD is a num matrix then, a) It is not necessary that either $\Lambda = 0$	
	a) It is not necessary that either A=O	
	$\begin{array}{c} OI B = O \\ b A = O \text{ or } B = O \end{array}$	
	$\mathbf{D} = \mathbf{O} = \mathbf{D} = \mathbf{D}$	
	c) $A = O$ and $B = O$	
	d) All the above statement are wrong.	
	5. If A and B are square matrices of the	
	same order, then (A+B) (A-B) is equal	
	to	
	a) A ² -B ²	
	b) A ² -BA-AB-B ²	
	c) A ² -B ² +BA-AB	
	d) A^2 - BA + B^2 + AB	
	[<i>n</i> 0 0]	
	$A = \begin{bmatrix} 0 & n & 0 \end{bmatrix}$	
	0 0 12	
	6. If and	
	$\begin{bmatrix} a_1 & a_2 & a_3 \end{bmatrix}$	
	$B = \begin{bmatrix} b & b & b \end{bmatrix}$	
	$\begin{bmatrix} c_1 & c_2 & c_3 \end{bmatrix}$, then AB is equal to	
	a) B b) nB	
	c) B^n d)	
	A+B	

12 x $A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$ and If 7. 7. If $B = \begin{bmatrix} 1 & -2 & y \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$ then $A B = I_3$, then x + yequals a) 0 b) -1 c) 2 d) None of these $A = \begin{bmatrix} 1 & -1 \\ 2 & -1 \end{bmatrix}, B = \begin{bmatrix} a & 1 \\ b & -1 \end{bmatrix}$ 8. and $(A+B)^2 = A^2 + B^2$, then values of *a* and b are a) *a=*4, *b=*1 b) *a*=1, *b*=4 c) *a*=0, *b*=4 d) *a*=2, *b*=4 $A = \begin{bmatrix} \alpha & \beta \\ \gamma & -\alpha \end{bmatrix}$ is such that $A^2 = I$, 9. then a) $1 + \alpha^{2} + \beta \gamma = 0$ b) $1 - \alpha^{2} + \beta \gamma = 0$ c) $1 - \alpha^{2} - \beta \gamma = 0$ d) $1 + \alpha^{2} - \beta \gamma = 0$ If S= [S_{ij}] is a scalar matrix such that 10. $\mathcal{S}_{ii} = k$ and A is a square matrix of the same order, then *AS*=*SA*=? a) A^k b) *k*+*A* d) *kS* c) *kA* If A is a square matrix such that $A^2 = A$, 11. then $(I+A)^3$ -7A is equal to a) A b) I-A c) I d) 3A 12. If a matrix A is both symmetric and skew - symmetric, then a) A is a diagonal matrix b) A is a zero matrix c) A is a scalar matrix d) A is s square matrix 13. The matrix

	[0 5 -7]	
	7 -11 0	
	= $=$ 18	
	a) a skew-symmetric matrix	
	b) a symmetric matrix	
	d) on unnon trion culor motrix	
	14 If A is a square matrix then AA is a	
	14. If A is a square matrix, then AA is a	
	h) symmetric matrix	
	c) diagonal matrix	
	d) none of these	
	15 If A and B are symmetric matrices	
	then ABA is	
	a) symmetric matrix	
	b) skew-symmetric matrix	
	c) diagonal matrix	
	d) scalar matrix	
	16. If	
	[5 x]	
	$\begin{bmatrix} \mathcal{Y} & 0 \end{bmatrix}$ and $A = A^T$, then	
	a) $x=0, y=5$ b) $x+y=5$	
	c) $x=y$ d) None of these	
	17. If A is 3×4 matrix and B is a matrix	
	such that $A^T B$ and BA^T are both defined.	
	Then, B is of the type	
	a) 3×4 b) 3×3	
	c) 4×4 d) 4×3	
	18. If $A=[a_{ij}]$ is a square matrix of even	
	order such that $a_{ij}=i^3-j^3$, then	
	a) A is a skew symmetric matrix and $ A $	
	b) A is symmetric matrix and A is a	
	square	
	c) A is symmetric matrix and $ A =0$	
	d) None of these	
BIOLOGY	☐ Make Biology practical record file in same	
DIOLOGI	sequence	
	given below	
	A. List of Experiments	
	□ Prepare a temporary mount to observe	
	pollen germination.	
	\Box Study the plant population density by	
	quadrat method.	
	$\hat{\Box}$ Study the plant population frequency by	
	quadrat method.	

	Prepare a temporary mount of onion root tip	
	to study	
	□ Isolate DNA from available plant material	
	such as spinach,	
	green pea seeds, papaya, etc.	
	(NOTE: Write experiments from Compressive	
	practical book as	
	Aim	
	Material Required	
	Theory	
	Procedure	
	Observation	
	Colculation	
	Result	
	Conclusion	
	Precautions.	
	□ Make a investigatory project on any one	
	topic as	
	Topic can be take of your choice according to	
	CBSE Norms	
	□ Infertility	
	\Box Importance of umbilical cord	
	\Box Drug addiction	
	\square Any pollution (specific)	
	\square Any disease	
	\Box Effect of manura and chemical fortilizers on	
	plant	
	growth	
	DNA fingerprinting	
	□ Tissue Culture	
	\Box Gene therapy	
	🗆 Ebola virus	
	Corona virus	
	□ DNA recombination technique	
	□ Application of biotechnology in any specific	
	field	
	Chromosomal and genetic disorder	
	□ NOTE: Investigatory project should be	
	nrinted with	
	colourful nictures Data and graphs	
	Write Symposic respect on a super fit	1) Dupies of your out -11-1-1''''
	write Synopsis report on any one of the	1)Project report should be printed in A4 size
SEIENCE(083)	ronowing Project title.	paper.
		2) Coading should be error free
	1) Hospital Management System	3) file handling concept must be use.
	2) Airline Management System	
	3) School Management System	
	4) Hotel Management System	
	5) Any Other topic	

	6) games	
	Synopsis report contains following Topics.	
	1) Introduction about Python.	
	2) Introduction about SQL.	
	3) Introduction about Project.	
	4) Flowchart of project.	
	5) Database & files Use in project	
PSYCHOLOGY	CASE PROFILE	Suggested format for preparing a
	• Develop a case profile. Use qualitative	case profile
	techniques, such as observation.	1. Introduction:
	interview. survey.etc.	A brief introduction
	• Main objective of preparing a case	of about one or two
	profile is to understand the individual	nages presenting the
	in totality. This will help in	nature of the
	establishing the cause-and-effect	problem its
	relationship more accurately	incidence likely
	 You have to prepare a case profile of 	causes and possible
	an individual who may be having	counselling
	special needs like learning disability	outcomes
	autism bipolar disorder schizophrenia	Utelf page brief
	disorder etc. or those with	• Hall page offer
	interpersonal social problems i e poor	identification of data:
	body image temper tantrums	2. Identification of data.
	substance abuse not getting along with	• finalite(finalybe
	peers withdrawn etc	diagnosed mehlem
	 Find out Background information and 	 diagnosed problem
	developmental history of the	2 aaga bistamu
	individual	5. Case instory:
	indi (iddai	• a paragraphi giving
		age, genuer, School
		Information about
		social economic
		status consisting of
		information about
		mother's/ father's
		education and
		occupation, family
		income, nouse type,
		number of members
		in the family-
		(brothers sisters and
		their birth order, etc.)
		• Information about
		physical health,
		physical
		characteristics(heigh
		t and weight), any
		disability/ illness(in

		 the past and present), etc. any professional help taken(past and present), giving a brief history of the problem, attitude towards counselling(indicati ng the motivation to seek help etc.) Recording signs (what is observed in terms of facial expression, mannerisms, etc) and symptoms(what the subject reports, for example, fears, worry, tension, Sleeplessnes s, etc.) 4. Concluding comments
HINDUSTANI VOCAL MUSIC (034)	1. 0	
PHYSICAL EDUCATION	➢ Practical-1: Fitness tests administration. (SAI Khelo India Test)	Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility test, Strength Test (Partial Abdominal Curl Up, Push-Ups for boys, Modified Push-Ups for girls)
	 Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for Each lifestyle disease Practical-3: Anyone one Sport/Game of choice (Basketball, Cricket, Football and Volleyball). Labelled diagram of Field & 	 Obesity Diabetes Asthma Hypertension Back Pain Introduction of Game History of Game

PAINTING	Equipment. Also, mention its Rules, Terminologies & Skills. Practical Work: Painting Sessional Work – Prepare 3 Sheets of Still life with nature.	 Rules and regulations of Game Fundamental skills of Game Terminology of Game Famous personality Famous National and International venues
TOURISM	Portfolio- Topics- 1. Concept of Tourism 2. Scope of Tourism 3. An Itinerary (of your choice) 4. Any one Brochure (of your choice) 5. Contribution of Thomas Cook and Cox's and Kings in Tourism	 Instructions - 1. Give your portfolio in spiral-bound file 2. Use colorful/handmade papers 3. Write correct and authentic information 4. Your presentation should be eye-catchy 5. Be artistic □ while making your portfolio 6. Portfolio should be neat and tidy7. Add two extra blank papers at the end.
YOGA	 Introduction to yoga and yogic practice 1 Shatkarma - meaning principal and their health benefits. Introduction of pranayama and dhayana and their health benefits. Identify career opportunities in yoga. Five standing asanas and five sitting ananas. 	Complete all exercise in practical file.
WEB APPLICATION	 Write a JavaScript for loop that iterates from 0 to 15. For each iteration, it checks if the current number is odd or even, and displays a message on the screen. Sample Output : "0 is even" "1 is odd" "2 is even" Write a JavaScript program to find the Armstrong numbers of 3 digits. Note : An Armstrong number of three digits is an integer such that the sum of the cubes of its digits is equal to the number itself. For example, 371 is an Armstrong number since 3**3 + 7**3 + 1**3 = 371. Write a JavaScript program to sum 3 and 5 multiples under 1000. 	Write coding in practical file and paste its outputs

4. Write a JavaScript program to compute the	
greatest common divisor (GCD) of two	
positive integers.	
5. Design a small video on following topic	
Sport, IT icon, AI, yaga.	