

## HOLIDAY HOMEWORK

SUBJECTS

HOMEWORK

### PPT TOPICS SUBJECT WISE

Student's Name	English	BIOL OGY	PHYSICAL EDUCATIO N	PHYSICS (PPT+ PROJEC T with project report)	CHEMISTR Y	Commercial	MATHEMA TICS
ABHAY GAUTAM	What is racism?	NA	Prepare a power point presentation (4 Pages) Topic – Obesity: Procedure, Benefits & Contraindications for- Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana & Halasana.	Prepare a power point presentation on Electromagnetic waves and their characteristics. <b>PROJECT</b> Make a working project based on LDR (Light Dependent Resistance)	Types of solutions,	Prepare a power point presentation (5 Pages) Topic – <b>The Rajasthani Sub school of miniature Painting</b>	Prepare a power point presentation (4 Pages) Topic – <b>Inverse s of Trigonometric Functions</b>
AMAN KASHYAP	What are the pros and cons of online education?	NA	NA	Prepare a power point presentation on Electromagnet	Expression of concentration of solutions of solids in liquids	Prepare a power point presentation (5 Pages) Topic – <b>The origin and development of</b>	Prepare a power point presentation (4 Pages) Topic – <b>Inverse Of Tangent Function</b>

				ic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses. <b>PROJECT</b> Making a project of half wave rectifier.		<b>miniature painting of India</b>	
ANMOL GUPTA	What is social archaeology ?	NA	Prepare a power point presentation (4 Pages) Topic – Obesity: Procedure, Benefits & Contraindications for - Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana	Prepare a power point presentation on Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution. <b>Project</b>	solubility of gases in liquids	Prepare a power point presentation (5 Pages) Topic – <b>RAJA ANIRUDDHA SINGH HARA (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Properties of inverse Trigonometric Functions</b>

				Making a full wave rectifier.			
ANUJ GUPTA	What is the TOEFL & ILETS	NA	NA	Prepare a power point presentation on Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric Field. Project: Charging and discharging of capacitor.	solid solutions, Raoult's law	NA	Prepare a power point presentation (4 Pages) Topic – <b>Types of Matrices</b>
APOORVA PUNDIR	What is the IB program?	Homologous evolution	NA	Prepare a power point presentation on Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged	Colligative properties - relative lowering of vapour pressure	Prepare a power point presentation (5 Pages) Topic – <b>The Rajsthani Sub school of miniature Painting</b>	NA

				infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Project: Wireless Electricity transmission			
ARHAM	What is the foreign exchange program	NA	Prepare a power point presentation (4 Pages) Topic – Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottansana, UttanMandukasanana & Bhujangasana.	Prepare a power point presentation on Distinguish between Electric potential, potential difference. Project: Using Transistor as a switch.	elevation of boiling point, depression of freezing point	Prepare a power point presentation (5 Pages) Topic – <b>MARU- RAGINI (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Properties of Matrix addition &amp; Subtraction of Matrices</b>
ARNISH VERMA	Why is it important to study Physics?	NA	NA	Prepare a power point presentation on electric potential due to a point charge, a dipole and system of charges; equipotential surfaces Project:	osmotic pressure, determination of molecular masses using colligative properties	Prepare a power point presentation (5 Pages) Topic – <b>RADHA BANI-THANI (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Properties of Matrix Multiplication</b>

				Overcharging protection of battery using diode.			
ARYAN QURESHI	What is the difference between White Hat and Black Hat Hacking?	NA	Prepare a power point presentation (4 Pages) Topic – Asthma: Procedure, Benefits & Contraindications for Kapalbhathi, Gomukhasana Matsyaasana & Anuloma-Viloma.	Prepare a power point presentation on electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Project: Make an audio amplifier using LM386 IC.	abnormal molecular mass, Van't Hoff factor	Prepare a power point presentation (5 Pages) Topic – <b>KRISHNA ON SWING (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>On Matrix Polynomials and Matrix Polynomial Equations</b>
AYUSH RAWAT	What is the 'generation gap'?	NA	Prepare a power point presentation (4 Pages) Topic – Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana & Shalabhasana.	Prepare a power point presentation on Conductors and insulators, free charges and bound charges inside a Conductor. Project: Make a project to demonstrate electrostatic charge and its interaction.	standard electrode potential,	NA	Prepare a power point presentation (4 Pages) Topic – <b>Determinants of a Square Matrix of order 1 &amp; order 2</b>

AYUSH TYAGI	Why is it important to learn a second language?	NA	Prepare a power point presentation (4 Pages) Topic – Diabetes: Procedure, Benefits & Contraindications for Dhanurasana, Supta-vajarasana, Paschimottanasana & Ardha-Mastendrasana .	Prepare a power point presentation on Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel Project: Make a project demonstrating single slit diffraction pattern.	Nernst equation and its application to chemical cells	Prepare a power point presentation (5 Pages) Topic – <b>CHAUGAN PLAYER (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Determinant of a Square Matrix of order 3 By using SARRUS DIAGRAM</b>
DEV PRADHAN	What is the difference between an autobiography and a memoir?	NA	Prepare a power point presentation (4 Pages) Topic – Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakransana, Uttanpadasana & Ardha Halasana.	Prepare a power point presentation on capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only). Project: Make a project demonstrating capacitor as a	Relation between Gibbs energy change and EMF of a cell	Prepare a power point presentation (5 Pages) Topic – <b>RADHA BANITHANI (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Properties of Determinants</b>

				filter in half wave rectifier.			
DIVYANSH	Who is William Shakespeare?	Convergent Evolution	Prepare a power point presentation (4 Pages) Topic – Hypertension: Procedure, Benefits & Contraindications for Sarala Matyasana, Gomukhasana, UttanMandukasan a & Vakrasana.	Prepare a power point presentation on Electromagnetic waves and their characteristics. PROJECT Make a working project based on LDR (Light Dependent Resistance)	conductance in electrolytic solutions	NA	Prepare a power point presentation (4 Pages) Topic – <b>Singular Matrix and Minor and Cofactors</b>
DURGESH KUMAR YADAV	How were Egyptian mummies conserved?	NA	Prepare a power point presentation (4 Pages) Topic – Hypertension: Procedure, Benefits & Contraindications for Bhujangasana, Makarasana & Shavasana.	Prepare a power point presentation on Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses. PROJECT Making a project of half wave rectifier.	specific and molar conductivity,	NA	Prepare a power point presentation (4 Pages) Topic – <b>Evaluation of Determinants</b>

EKTA KUMARI	Importance of Literary devices in literature	NA	Prepare a power point presentation (4 Pages) Topic – Hypertension: Procedure, Benefits & Contraindications for Nadi shodhanapranayam & Sitlipranayam.	Prepare a power point presentation on Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution. Project Making a full wave rectifier.	variations of conductivity with concentration	Prepare a power point presentation (5 Pages) Topic – <b>BHARAT MEETS RAMA AT CHITRAKUTA (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Evaluating Determinants by using the properties of Determinants and Proving Identities</b>
GAURANGI AGARWAL	How does the digestive system work?	CONVERGENT EVOLUTION	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure, Benefits & Contraindications for Tadasana, Urdhawahastootana, Ardha-Chakrasana, Bhujangasana,	Prepare a power point presentation on Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in	Kohlrausch's Law	Prepare a power point presentation (5 Pages) Topic – <b>BHARAT WORSHIPPING CHARAN PADUKAS OF RAMA (Painting)</b>	NA

				uniform electric Field. Project: Charging and discharging of capacitor.			
HAMID SAIFI	What is the story of King Tut's Curse?	NA	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure, Benefits & Contraindications for Ushtrasana, Vakrasana, Sarala Maysyendrsana.	Prepare a power point presentation on Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Project: Wireless Electricity transmission	electrolysis and law of electrolysis	Prepare a power point presentation (5 Pages) Topic – <b>KRISHNA WITH GOPIS (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Minor and Cofactors</b>
HARSH PANDEY	What is historical fiction?	NA	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure,	Prepare a power point presentation on Distinguish between	dry cell- electrolytic cells and Galvanic cells	Prepare a power point presentation (5 Pages) Topic – <b>RADHA AND KRISHNA LOOKING</b>	Prepare a power point presentation (4 Pages) Topic – <b>Evaluation of Determinants By</b>

			Benefits & Contraindications for Gomukhasana, Bhadrasana, Makarasana, NadiShodhana pranayama.	Electric potential, potential difference. Project: Using Transistor as a switch.		<b>INTO A MIRROR (Painting)</b>	<b>Using Factor theorem</b>
HARSHIT TIWARI	Who is Steve Jobs?	NA	Prepare a power point presentation (4 Pages) Topic – Obesity: Procedure, Benefits & Contraindications for- Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana & Halasana.	Prepare a power point presentation on electric potential due to a point charge, a dipole and system of charges; equipotential surfaces Project: Overcharging protection of battery using diode.	Lead acid battery, fuel cells, corrosion	Prepare a power point presentation (5 Pages) Topic – <b>COSMIC DANCE OF SHIVA (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Application of Determinants to Coordinate Geometry</b>
ISHAN	How has the role of women changed in society?	NA	NA	Prepare a power point presentation on electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Project:	Types of solutions,	NA	Prepare a power point presentation (4 Pages) Topic – <b>application of Determinates in Solving a System of Linear Equations</b>

				Make an audio amplifier using LM386 IC.			
KANCHAN SHARMA	Is depression real?	Adaptive Radiation	NA	Prepare a power point presentation on Conductors and insulators, free charges and bound charges inside a Conductor. Project: Make a project to demonstrate electrostatic charge and its interaction.	Expression of concentration of solutions of solids in liquids	Prepare a power point presentation (5 Pages) Topic – <b>KABIR AND RAIDAS (Painting)</b>	NA
KANISHKA JAIN	What is the origin of Language?	NA	NA	Prepare a power point presentation on Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel Project: Make a project demonstrating single slit diffraction pattern.	solubility of gases in liquids	NA	NA

KUSHAL SINGH	What is organ donation and why is it important?	Branching descent	Prepare a power point presentation (4 Pages) Topic – Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakransan, Uttanpadasana & Ardha Halasana.	Prepare a power point presentation on capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only). Project: Make a project demonstrating capacitor as a filter in half wave rectifier.	solid solutions, Raoult's law	Prepare a power point presentation (5 Pages) Topic – <b>NAND, YASHODA AND KRISHNA WITH KINSMEN GOING TO VRINDAVANA (Painting)</b>	NA
LAKSHAY KUMAR TYAGI	The history of the internet	NA	Prepare a power point presentation (4 Pages) Topic – Hypertension: Procedure, Benefits & Contraindications for Sarala Matyasana, Gomukhasana, UttanMandukasan a & Vakrasana.	Prepare a power point presentation on Electromagnetic waves and their characteristics. <b>PROJECT</b> Make a working project based on LDR (Light Dependent Resistance)	Colligative properties - relative lowering of vapour pressure	Prepare a power point presentation (5 Pages) Topic – <b>BABUR CROSSING THE RIVER SONE (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Inverse of a Matrix</b>

MADHUR BHARDWAJ	How has binge-watching changed television?	NA	Prepare a power point presentation (4 Pages) Topic – Hypertension: Procedure, Benefits & Contraindications for Bhujangasana, Makarasana & Shavasana.	Prepare a power point presentation on Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses. PROJECT Making a project of half wave rectifier.	elevation of boiling point, depression of freezing point	Prepare a power point presentation (5 Pages) Topic – <b>KRISHNA LIFTING MOUNT GOVERDHANA (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Matrix method for the solution of a NON – HOMOGENEOUS system</b>
MANTHAN KUMAR	What is emotional intelligence?	NA	NA	Prepare a power point presentation on Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle	osmotic pressure, determination of molecular masses using colligative properties	Prepare a power point presentation (5 Pages) Topic – <b>MARRIAGE PROCESSION OF DARA SHIKOH (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>When the Determinants of the Coefficient Matrix is NON - SINGULAR</b>

				and continuous charge distribution. Project Making a full wave rectifier.			
MOHD SUHAIL	Why do humans want to colonize Mars?	NA	Prepare a power point presentation (4 Pages) Topic – Hypertension: Procedure, Benefits & Contraindications for Nadi shodhanapranayam & Sitlipranayam.	Prepare a power point presentation on Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric Field. Project: Charging and discharging of capacitor.	abnormal molecular mass, Van't Hoff factor	Prepare a power point presentation (5 Pages) Topic – <b>JAHANGIR HOLDING THE PICTURE OF MADONA (MOTHER MARY) (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>On Applications of Simultaneous Linear Equations</b>
OJAS SONI	What are the best-paid careers?	Saltation	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure, Benefits & Contraindications for Tadasan, Urdhawahastootana, Ardh-	Prepare a power point presentation on Electric flux, statement of Gauss's theorem and its applications to find field	standard electrode potential,	Prepare a power point presentation (5 Pages) Topic – <b>The origin and development of miniature painting of India</b>	NA

			Chakrasana, Bhujandgasana,	due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Project: Wireless Electricity transmission			
PRAPTI KAUSHIK	What is blogging?	Founder effect	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure, Benefits & Contraindications for Ushtrasana, Vakrasana, Sarala Maysyendrsana.	Prepare a power point presentation on Distinguish between Electric potential, potential difference. Project: Using Transistor as a switch.	Nernst equation and its application to chemical cells	Prepare a power point presentation (5 Pages) Topic – <b>FALCON ON A BIRD-REST (Painting)</b>	NA
PRINCE PAL	Evolution of the projector	NA	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure, Benefits & Contraindications for Gomukhasana, Bhadrasana,	Prepare a power point presentation on electric potential due to a point charge, a dipole and system of	Relation between Gibbs energy change and EMF of a cell	Prepare a power point presentation (5 Pages) Topic – <b>RAJA ANIRUDDHA SINGH HARA (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Evaluations of Definite Integrals</b>

			Makarasana, NadiShodhana pranayama.	charges; equipotential surfaces Project: Overcharging protection of battery using diode.			
PRITHVI GAUTAM	What is Virtual Reality?	NA	Prepare a power point presentation (4 Pages) Topic – Obesity: Procedure, Benefits & Contraindications for- Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana & Halasana.	Prepare a power point presentation on electrical potential energy of a system of two- point charges and of electric dipole in an electrostatic field. Project: Make an audio amplifier using LM386 IC.	conductance in electrolytic solutions	Prepare a power point presentation (5 Pages) Topic – <b>The Rajasthani Sub school of miniature Painting</b>	Prepare a power point presentation (4 Pages) Topic – <b>Properties of Definite Integrals</b>
RISHANT PANCHAL	How does the human immune system work?	NA	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure, Benefits & Contraindications for Gomukhasana, Bhadrasana, Makarasana, NadiShodhana pranayama.	Prepare a power point presentation on Conductors and insulators, free charges and bound charges inside a Conductor. Project: Make a project to demonstrate	specific and molar conductivity,	Prepare a power point presentation (5 Pages) Topic – <b>RAJA ANIRUDDHA SINGH HARA (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>On Applications of Simultaneous Linear Equations</b>

				electrostatic charge and its interaction.			
RIYA SHARMA	How to save money	Evolution	NA	Prepare a power point presentation on Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel Project: Make a project demonstrating single slit diffraction pattern.	variations of conductivity with concentration	NA	NA
SAKSHAM KUMAR	What is the most difficult language to learn?	NA	NA	Prepare a power point presentation on capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).	Kohlrausch's Law	NA	Prepare a power point presentation (4 Pages) Topic – <b>Inverse s of Trigonometric Functions</b>

				Project: Make a project demonstrating capacitor as a filter in half wave rectifier.			
SALONI	How secure is a freelance career in 2023?	Darwin's theory of evolution	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure, Benefits & Contraindications for Gomukhasana, Bhadrasana, Makarasana, NadiShodhana pranayama.	Prepare a power point presentation on Electromagnetic waves and their characteristics. PROJECT Make a working project based on LDR (Light Dependent Resistance)	electrolysis and law of electrolysis	Prepare a power point presentation (5 Pages) Topic – <b>MARU- RAGINI (Painting)</b>	NA
SHAURYA KANT GAUTAM	The impact of TikTok or Short reels on advertising	NA	NA	Prepare a power point presentation on Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.	dry cell- electrolytic cells and Galvanic cells	Prepare a power point presentation (5 Pages) Topic – <b>BHARAT MEETS RAMA AT CHITRAKUTA (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Evaluation of Determinants By Using Factor theorem</b>

				PROJECT Making a project of half wave rectifier.			
SHAURYA KISHORE MISHRA	How to get into an international university	NA	NA	Prepare a power point presentation on Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution. Project Making a full wave rectifier.	Lead acid battery, fuel cells, corrosion	Prepare a power point presentation (5 Pages) Topic – <b>RADHA BANI-THANI (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>Application of Determinants to Coordinate Geometry</b>
SHOBHAGYA DIXIT	The impact of COVID-19 on organizational culture?	DNA	Prepare a power point presentation (4 Pages) Topic – Back Pain Procedure, Benefits & Contraindications for Gomukhasana, Bhadrasana,	Prepare a power point presentation on Electric field, electric field due to a point charge, electric field lines, electric	Types of solutions,	Prepare a power point presentation (5 Pages) Topic – <b>BHARAT MEETS RAMA AT CHITRAKUTA (Painting)</b>	NA

			Makarasana, NadiShodhana pranayama.	dipole, electric field due to a dipole, torque on a dipole in uniform electric Field. Project: Charging and discharging of capacitor.			
SHOBHIT SHARMA	What is Artificial Intelligence (AI)?	NA	NA	Prepare a power point presentation on Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Project: Wireless Electricity transmission	Expression of concentration of solutions of solids in liquids	Prepare a power point presentation (5 Pages) Topic – <b>CHAUGAN PLAYER (Painting)</b>	Prepare a power point presentation (4 Pages) Topic – <b>On Matrix Polynomials and Matrix Polynomial Equations</b>

<p>SNAHILL GARG</p>	<p>What constitutes a good work-life balance?</p>	<p>NA</p>	<p>Prepare a power point presentation (4 Pages) Topic – Asthma: Procedure, Benefits &amp; Contraindications for Kapalbhati, Gomukhasana Matsyaasana &amp; Anuloma-Viloma.</p>	<p>Prepare a power point presentation on Distinguish between Electric potential, potential difference. Project: Using Transistor as a switch.</p>	<p>solubility of gases in liquids</p>	<p>Prepare a power point presentation (5 Pages) Topic – <b>KRISHNA ON SWING (Painting)</b></p>	<p>Prepare a power point presentation (4 Pages) Topic – <b>Types of Matrices</b></p>
<p>SUSHANT GAUTAM</p>	<p>Are internships worth it?</p>	<p>NA</p>	<p>Prepare a power point presentation (4 Pages) Topic – Diabetes: Procedure, Benefits &amp; Contraindications for Katichakrasana, Pavanmuktasana, B hujangasana &amp; Shalabhasana.</p>	<p>Prepare a power point presentation on electric potential due to a point charge, a dipole and system of charges; equipotential surfaces Project: Overcharging protection of battery using diode.</p>	<p>solid solutions, Raoult's law</p>	<p>Prepare a power point presentation (5 Pages) Topic – <b>KRISHNA ON SWING (Painting)</b></p>	<p>Prepare a power point presentation (4 Pages) Topic – <b>Minor and Cofactors</b></p>
<p>TANISHKA SINGH</p>	<p>Should human cloning be allowed?</p>	<p>RNA</p>	<p>Prepare a power point presentation (4 Pages) Topic – Diabetes: Procedure, Benefits &amp; Contraindications</p>	<p>Prepare a power point presentation on electrical potential energy of a system of two-point charges</p>	<p>Colligative properties - relative lowering of vapour pressure</p>	<p>NA</p>	<p>NA</p>

			for Dhanurasana, Supta-vajarasana, Paschimottanasana & Ardha-Mastendrasana .	and of electric dipole in an electrostatic field. Project: Make an audio amplifier using LM386 IC.			
VANSH KUMAR	How to live as a digital nomad	NA	NA	Prepare a power point presentation on Conductors and insulators, free charges and bound charges inside a Conductor. Project: Make a project to demonstrate electrostatic charge and its interaction.	elevation of boiling point, depression of freezing point	NA	Prepare a power point presentation (4 Pages) Topic – <b>Properties of inverse Trigonometric Functions</b>

#### ENGLISH HOLIDAY HOMEWORK:

#### GUIDELINES FOR PRESENTATION:

#### Key presentation don'ts are:

- **Don't create slides full of text**—your presentation is not a 30-page essay. Instead, create slides with just a few bullets and some type of visual to represent your content.
- **Don't just read off of your slides**—you'll bore your audience. Practice and rehearse your presentation or create index cards with speaking notes to make your presentation more engaging.

- **Don't ramble and go over your allotted time**—you'll sound flustered and unorganized. Again, make sure you practice your presentation so that you can smoothly transition from slide to slide and cover all information in the time given.

#### **Visual Element Ideas:**

- Place photos strategically on your slide to drive your point home
- Use colorful shapes and animated graphics
- Try 3D graphics to make your content pop
- Apply shaped frames to images within your slides
- Use icons to visualize your text

#### **A few tips for engaging your audience include:**

- Avoid using a monotonous tone; instead, tell stories, speak conversationally, and hold your audience's attention
- Try not to say things like, "um," "er," "like" and similar terms
- Focus on keeping good posture throughout
- Avoid chewing gum, fidgeting or doing other things that will detract from your speech
- Make eye contact with your audience rather than staring at your notes or your slides

## **CLASS -XII English Project**

### **CBSE GUIDELINES FOR ENGLISH PROJECT 2023-24**

The Project-Portfolio/Project Report is a compilation of the work that the students produce during the process of working on their ALS Project.

#### **The Project-Portfolio may include the following:**

- **Cover page, with title of project, school details/details of students.**
- **Statement of purpose/objectives/goals**
- **Certificate of completion under the guidance of the teacher.**
- **Action plan for the completion of assigned tasks.**
- **Materials such as scripts for the theatre/role play, questionnaires for interview, written assignments, essays, survey-reports and other material evidence of learning progress and academic accomplishment.**
- **The 800-1000 words essay/Script/Report.**
- **Student/group reflections.**

- If possible, Photographs that capture the positive learning experiences of the student(s).
- List of resources/bibliography.

The following points must be kept for consideration while assessing the project portfolios:

- Quality of content of the project
- Accuracy of information
- Adherence to the specified timeline
- Content in respect of (spellings, grammar ,punctuation)
- Clarity of thoughts and ideas
- Creativity
- Contributions by group members
- Knowledge and experience gained

**TO SUM IT IN BRIEF -THE PROJECT SHOULD INCLUDE**

1. INDEX
2. CERTIFICATE
3. INTRODUCTION
4. CONTENT——-ATLEAST 15 TO 20 PAGES
5. WRITE UP
6. LEARNING OUTCOME
7. BIBLIOGRAPHY

**HERE ARE THE SUGGESTIVE QUESTIONS FOR ENGLISH PROJECT WORK CAN BE TAKEN UP BY CLASS XII STUDENTS. (Prepared by MS KOMAL SHARMA- LECTURE ENGLISH)**

**TOPIC :1 Gender issues ( Take any one Issue) (Roll no- 1,40,2,41)**

- -Highlight the plight of oppressed Gender– inequality, injustice, deprivation, agony, pain faced by them ( Infographics / Data).
- -Women ideology towards gender inequality.
- -Movements against Gender inequality.
- -Discrimination at different places ( home, job, school etc).

- -Kamala Das – and Indian writer throughout her literature career has fought for the rights of women – ( **Aunt Jennifer's Tigers**) –mention the themes.
- -Kamala Das: The Voice of Indian Woman's Quest For Liberation ( It is an autobiographical verse ) Highlight.
- -# Me too movement.
- -How can the change be brought in the mind set of the people.
- -Recent Supreme court decision in America- Abort Crucial Rights.

LINK OF THE 1

**TOPIC 2: Unleash your real potential** – be bold, be resilient, be strong (Importance of a resilient attitude) (**Roll no- 3,4,20,40,39**)

- What do you mean by Resilient Attitude.
- Traits, qualities and characteristics of Resilient person.
- How personal choices help or hinder our resilience.
- Tips for Building and Cultivating Resilience.
- Why is resilience important?
- Is Resilience a skill or character strength?
- What are the seven C's of Resilience?
- Different types of resilience
- Key component and element of resilience life
- Take an example of the chapter— **Deep Water**
- Other examples of great personalities

**TOPIC -3: Courage is not the absence of fear but triumph over it (Roll no 5,6, 38,37)**

- -Introduction
- -Origin of the quote
- -Courage – a choice to act
- -What can one learn from fear
- -Benefits of having courage over fear
- -How and why to overcome fear

- -Fighting against fear is hard but worth it ( Examples)
- -Mention some of your worst fears and how you managed to overcome them — A Questionnaire
- -Famous personalities who overcame their fear ( Their motivation podcast/speech/stories)

**TOPIC -4- KARMA- THE INFINITE LOOP (Roll no. 7,8,36,35)**

- Is Karma an infinite loop?
- What is karma?
- Karma- a matter of faith
- Doctrine of Karma
- Law of causation/ action and reaction/retribution
- Philosophy of Karma
- Theories about Karma
- The subtle cause and effect of Karma
- Reincarnation
- Delusion
- Power of karma in relation to destiny
- The Rational of spiritual healing
- Bhagvad Geeta- ( reference)
- Duty or motive of karma

**TOPIC -5: Watch ‘CNN’s award-winning Planet in Peril series and Anderson Cooper 360 0 on the environment. (9,10,34,33)**

Write review in 500 to 1000 words highlighting the problems dealt.

- –Like Climate change
- Vanishing habitats
- Disappearing species
- Human population growth
- Collect pictures and articles from the journals, newspaper and science magazines showing the changes

- Make a comparative report showing the changes from past 20 years.
- Mention Role of Eight year old girl Licypriya, known as Indian ‘Greta’ for her passion towards the fight against climate change. ( Take any other example)
- **TOPIC-6: Watch short film “Positive all the way” ( how people with undeterred determination face the obstacles of life and leave a mark for themselves) (Roll no.11,12,32,31)**
- -Give examples of people in different sphere of life who have shown positive attitude and reached the pinnacle of success
  - – obstacles faced
  - – their undeterred determination
  - – lesson and message their efforts give to others
  - – values learnt -can co relate it with the chapter ‘DEEP WATER’

**TOPIC -7: Watch the ‘The Story of Plastic’ it is a searing expose. Make a project on “Plastic Menace’ (Roll no. 13,14,30,29,22)**

- – **Uncover the ugly truth behind plastic pollution**
- –**Environmental damage created by plastic**
- -**Human Rights abused that occur throughout the lifecycle of plastic**
- -**False solution of plastic recycling.**
- – Initiative launched by Union Environment Minister to stop the plastic menace
- – infographic to show the increase of the use of plastic
- – some state/ countries who are successful in reducing the use of plastic
- – cutting from Newspaper/Journals to show the impact of Plastic
- – views about plastic ban

**TOPIC -8: Social Issues in India (Roll no. 15,16,28,27,21)**

**A, GENDER ISSUES –**

1. Reason/causes for disparity
  - Gender gap in Education/labour force/employment

- Economic survey
- Rank of India as per World Economic Forum
- Schemes launched by Indian Government to bridge the gap
- Campaigns launched to bring in behavioural change in society

## **B. MIGRATION**

- Changing Pattern of Migration
- women migration in India is increasing at a faster pace than men Why?
- Plight of Migrants ( even talk of the plight of the migrants during the pandemic)
- Infographic description ( No., reason, condition)
- Take incident from (lost spring) talk of the callousness of society and the political class towards the sufferings of the poor

## **C. DOMESTIC VIOLENCE**

### – INTRODUCTION

- cycle of abuse
- intergenerational violence
- effects
- causes
- prevention
- types of abuses
- legal way to approach
- Satyamav Jayate ( Episodes)

ex-Aunt Jennifer's Tigers

**TOPIC-9: “When a people are enslaved, as long as they hold fast to their language it is as if they had the key to their prison.”(17,18,26,25)**

- Importance of Language
- Meaning of ‘Linguistic chauvinism’

- Find examples in history where conquered people had their language taken away from them or had a language imposed of them—What was the result/outcome
- Problems faced by linguistic minority
- How can they keep their language alive
- Linguistic human rights
- Linguistic Chauvinism examples from English literature

### **TOPIC -10: Navarasas ( Nine Rasas)(Roll-19,29,24,23)**

- What are the Nine rasas?
- The Chemistry behind Emotions
- Colours that represent Nine rasas
- Are emotions good or bad? Should we embrace all emotions?
- How to overcome bad moods?/ What happens when the emotions are suppressed?
- Life experience of dealing with emotions ( Grief, Sorrow, Anger, Fear)
- Professions and skills which include learning about emotions
- Make a Google form (atleast 10 questions )/make a questionnaire= to assess your as well as your friends Emotional State

### **English Worksheet-**

**Q-1 Why Franze feeling sorry for his teacher M. Hamal?**

**Q2- What is the significance of mother tongue?**

**Q3- Imagine that after school M. Hamel met to the villagers in the Alsace and gave them a motivational speech to evoke the patriotism in them. Write a speech on behalf of M. Hamel to describe his thoughts about the forceful implementation of German language.**

**Q4- What is escapism?**

**Q5- Louisa was worrying about her husband. Describe her thought about Sam and Charley in the form of dialogue with her mother.**

**Q6- Sam wrote a letter to Charley and invited him and his wife to Galesburg. Write a letter as a reply to Sam by Charley and describe his idea about searching and finding Galesburg and what he would do there for his livelihood.**

**Q7- Kamla Das was worrying about her mother's old age and she did not want to leave her mother alone, However, due to the work engagements she had to leave her mother alone with the thought of her childhood mother. Imagine yourself in the same situation and maintain a page of your diary to describe your own thoughts when you are leaving your parents alone.**

**Q8- Saheb and Mukesh are examples of the natural world where children are living a struggleful life to meet their basic needs. You observe the same scenario in your locality write a letter to the editor of a national daily to share your views on the same and write some suggestions how it can be changed.**

**Q9- You are a student of Sacred Heart Convent School, McLeod Ganj. The school is holding its Annual Function at 5.00 p.m. on 5 September 20XX. The Education Minister of the state has consented to be the Chief Guest. Design an invitation card to be sent to the parents and other invitees. Do not exceed 50 words.**

**Q10- You are a manager of ABC Ltd. Sector 30 Gurgaon. You need an efficient data entry operator for your office. Write an advertisement for the 'Situation Vacant' column of a local daily.**

**NOTE- WORSHEET WORK SHOULD BE DONE IN CLASSWORK NOTEBOOK.**

## **CHEMISTRY**

### **Projects.**

- Study of the presence of oxalate ions in guava fruit at different stages of ripening. (Roll no. 1 .3.5.7.9)
- Study of quantity of casein present in different samples of milk. (Roll no. 2,4,6,8,10)
- Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc. (Roll no. 11,13,15,17,19)
- Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.) (Roll no. 12,14,16,18,20)
- Study of digestion of starch by salivary amylase and effect of pH and temperature on it. (Roll no. 21,23,25,27,29)
- Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc. (Roll no. 22,24,26,28,30)
- Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom). (Roll no. 31,33,35,37,39)

- Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper. (Roll no. 32,34,36,38,40,41,42)

**Write the experiments in practical file and presentably decorate it.**

## **PHYSICS**

### **Projects**

1. To study various factors on which the internal resistance/EMF of a cell depends. (ROLL NO. 1 TO 5)
2. To study the variations in current flowing in a circuit containing an LDR because of a variation in
  - (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).
  - (b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR. (ROLL NO. 5 TO 10)
3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle. (ROLL NO. 11 TO 15)
4. To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer. (ROLL NO. 19 TO 20)
5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids. (ROLL NO. 21 TO 25)
6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law. (ROLL NO. 26 TO 30)
7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency. (ROLL NO. 31 TO 35)

8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer. (ROLL NO. 36 TO 42)

**Write the experiments in practical file and presentably decorate it.**

## **BIOLOGY**

- 1. Make an Investigatory project on prescribed topic**
- 2. The Project-Portfolio may include the following:**
  - **Cover page, with title of project, school details/details of students.**
  - **Statement of purpose/objectives/goals**
  - **Certificate of completion under the guidance of the teacher.**
  - **Action plan for the completion of assigned tasks.**
  - **Materials such as scripts , questionnaires for interview, written assignments, survey-reports and other material evidence of learning progress and academic accomplishment.**
  - **The 800-1000 words Report.**
  - **Student/group reflections.**
  - **If possible, Photographs that capture the positive learning experiences of the student(s).**
  - **List of resources/bibliography.**

**The following points must be kept for consideration while assessing the project portfolios:**

- **Quality of content of the project**
  - **Accuracy of information**
  - **Adherence to the specified timeline**
    - **Clarity of thoughts and ideas**
  - **Creativity**
  - **Contributions by group members**
  - **Knowledge and experience gained**
- 3. TO SUM IT IN BRIEF -THE PROJECT SHOULD INCLUDE**

4. INDEX
5. CERTIFICATE
6. INTRODUCTION
7. CONTENT——-ATLEAST 15 TO 20 PAGES
8. WRITE UP
9. LEARNING OUTCOME
- 10.BIBLIOGRAPHY

Serial number	Infectious disease	Microbes that causes the disease	microbes	Student's name
1.	cold	Rhinovirus	virus	Apoorva pundhir
2.	Chicken pox	Varicella zoster	Virus	Gaurangi agarwal
3.	German measles	Rubella	virus	Kanchan sharma
4.	Whooping cough	Bordatella pertusis	bacterium	Kushal singh
5.	Bubonic plague	Yersinia Pestis	Bacterium	Ojas soni
6.	Tuberculosis	Mycobacterium tuberculosis	Bacterium	Prapti kaushik
7.	Malaria	Plasmodium falciparum	Protozoan	Riya sharma
8.	Ringworm	Trichophyton rubrum	fungus	Saloni
9.	Athlete's foot	Trichophyton	fungus	Shobhagya dixit

		mentagrophytes		
10.	African Trypanosomiasis (sleeping sickness)	Trypanosoma brucei	Protozoa	Tanishka singh

**11. Write the experiments in practical file and presentably decorate it.**

- a. Prepare a temporary mount to observe pollen germination.
- b. Study the plant population density by quadrat method.
- c. Study the plant population frequency by quadrat method.
- d. [Prepare a temporary mount of the onion root tip to study mitosis.](#)
- e. [Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.](#)

SUBJECT- COMMERCIAL ART

CLASS XII

Q.No.	QUESTION
1	<b>What is the medium of Kabir and Raidas painting ?</b> A-Oil B-Water colours on paper C-Acrylic D-Mix media
2	<b>During which Mughal emperor's rule, maximum numbers of Portrait paintings were painted?</b> A-Akbar B-Jahangir C-Shahjahan D- Yusuf-Adil Shah
3	<b>Which Mughal painter is known as 'Raphael of the East'?</b> A-Bihjad B-Mansoor C- Manohar D- Miskin
4	<b>'Babar crossing the river sone'which painter made it ?</b> A-Jangannath B-Miskin C-Ustad Faquir Ullah Khan D-Abul Hasan
5	<b>In which reign was the Mughal painting 'Kabir and Raidas' painted?</b> A- Jahangir B-Akbar C- Shahjahan D- Provincial Mughal
6	<b>Name the painter of Mughal painting 'Krishna lifting Mount Govardhana'.</b> A-Nooruddin B-Miskin C-Nandlal Bose

	D-Ramgopal Vijayvargiya
7	<p><b>Who is considered as the Father of Mughal Art?</b></p> <p>A-Aurangzeb  B- Shahjahan  C-Akbar  D-Jahangir</p>
8	<p><b>Name the painter of 'Bharat Meets Ram At Chitrakoot'.</b></p> <p>A-Ustad Mansoor  B-Abul Hassan  C-Guman  D-Haji Madni</p>
9	<p><b>In which collection Krishna Lifting Mount Goverdhan has been kept?</b></p> <p>A- National Museum, New Delhi  B-Dhumimal Art Gallery  C- Lalit Kala Akademi, New Delhi  D-National Museum of Modern Art, New Delhi</p>
10	<p><b>In which medium is Kabir and Raidash painting made ?</b></p> <p>A-Oil  B-Water colours on paper  C-Acrylic  D-Mix medea</p>
11	<p><b>In whose time Kabir and Raidash painting is made ?</b></p> <p>A-Shajahan  B-Jahangir  C-Akbar  D-Aurangzeb</p>
12	<p><b>In whose time 'Krishna lifting Mount Govardhana' painting made?</b></p> <p>A-Shajahan  B-Jahangir  C-Akbar  D-Aurangzeb</p>
13	<p><b>On whose request was 'Kabir and Raidas' painting made?</b></p> <p>A-Dara Shikoh  B-Akbar.  C-Shahjahan  D-Sultan Abdullah Qutub Shah</p>
14	<p><b>Who is the artist of ' Kabir and Raidas' painting?</b></p> <p>A-Miskin</p>

	<p>B-Ustad Faquir Ullah Khan  C-Mir Saiyad Ali  D-Abdus Samad</p>
15	<p><b>In which period was Kabir and Raidas Painting made?</b>  A-1600 A.D  B-1780 A.D  C-1640 A.D  D-1550 A.D</p>
16	<p><b>Shape is two dimensional with height &amp; width whereas form is .....dimensional.</b>  A- one  B- Three  C -Four  D- Multi</p>
17	<p><b>When we mix one primary &amp; one secondary colour we get a ..... colour.</b>  A -Complimentary  B- Warm  C -Monochrome  D- Tertiary</p>
18	<p><b>Texture is the ..... materials either visual or tactile.</b>  A -Surface quality  B -Softness  C -Hardness  D -Design</p>
19	<p><b>Which is not an element of art?</b>  A-Line  B-Form  C-Rhythm  D-Colour</p>
20	<p><b>Which of the following is NOT a principal of art?</b>  A-Dominance  B-Balance  C-Rhythm  D-Colour</p>

## Artificial Intelligence

**Part A : Prepare a Presentation .**  
**(not more than five slides)**

<b>Student's Name</b>	<b>Presentation Topic</b>
<b>Arnish</b>	<b>AI in Healthcare:</b> Applications of AI in medical diagnosis and treatment AI-driven advancements in personalized medicine Ethical considerations and challenges in healthcare AI
<b>Apoorva</b>	<b>AI in Education:</b> Adaptive learning systems and personalized education AI-powered virtual tutors and educational chatbots Potential benefits and concerns regarding AI in education
<b>Kanishka</b>	<b>AI in Transportation:</b> Autonomous vehicles and their impact on road safety Traffic management and optimization using AI algorithms Future prospects of AI in transportation
<b>Manthan</b>	<b>AI in Entertainment:</b> AI-generated music and art AI in gaming and virtual reality experiences The role of AI in content recommendation and personalization
<b>Vansh</b>	<b>AI and Ethics:</b> Ethical considerations in AI development and deployment Bias and fairness issues in AI algorithms Ensuring transparency and accountability in AI systems

## **Part 2: Capstone Project Planning**

**Imagine you are working on a capstone project related to AI. Complete the following planning exercises:**

- 1. Project Idea:**
  - **Write a brief description of your AI capstone project idea.**
  - **Explain the problem it aims to solve or the goal it intends to achieve.**
- 2. Target Audience:**
  - **Identify the specific audience or users your project will cater to.**
  - **Explain why this audience would benefit from your project.**
- 3. Data Collection and Preparation:**
  - **Describe the type of data you would need for your project.**
  - **Discuss potential sources and methods for collecting and preparing the data.**
- 4. AI Techniques and Algorithms:**
  - **Identify the AI techniques or algorithms that you plan to utilize for your project.**
  - **Explain how these techniques or algorithms will help you achieve your project goal.**
- 5. Evaluation Metrics:**
  - **Determine the metrics or criteria you will use to evaluate the success of your project.**
  - **Explain how these metrics will measure the effectiveness and performance of your project.**
- 6. Project Timeline:**
  - **Create a timeline outlining the major milestones and tasks for your capstone project.**
  - **Allocate estimated timeframes for each task, including data collection, model development, and evaluation.**
- 7. Potential Challenges:**
  - **Identify potential challenges or obstacles you might face during your capstone project.**
  - **Discuss strategies or alternative approaches to overcome these challenges.**

**Remember, the capstone project planning exercise is hypothetical, so feel free to be creative with your project idea and planning process. This worksheet will help you develop a solid understanding of key AI concepts while also initiating the planning process for your capstone project.**

**Good luck with your holiday homework!**

**SHAMBHU DAYAL GLOBAL SCHOOL**

**CLASS -12**

**SUBJECT – MATHS**

**ACTIVITY**

**ACTIVITY:**

1. To find analytically the limit of a function  $f(x)$  at  $x = c$  and to check the continuity of the function at that point. (Roll No. 1 to 5)
2. To verify that for a function  $F$  to be continuous at given points  $X_0$ ,  $\Delta Y = f(X_0 + \Delta X) - f(X_0)$  is arbitrarily small provided  $\Delta X$  is sufficiently small. (Roll No. 6 to 10)
3. To understand the concepts of decreasing and increasing function. (Roll No. 11 to 17)
4. To understand the concept of local maxima, local minima and point of inflection. (Roll No. 18 to 24)
5. To understand the concept of absolute maxima and minima values of a function in a given closed interval through its graph. (Roll No. 25 to 31)
6. To construct an open box of maximum volume from a given rectangular sheet by cutting equal square from each corner. (Roll No. 32 to 36)
7. To find the time when the area of rectangle of given dimensions become maximum if the length is decreasing and the breadth is increasing at given rates. (Roll No. 37 to 39)
8. To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. (Roll No. 40 to 42)

**NOTE - Write the experiments in practical file and presentably decorate it.**

