

SAINIK SCHOOL CHITTORGARH

Autumn VACATION HOLIDAY HOMEWORK

INFORMATION

SUBJECT NAME: Mathematics

CLASS & SECTION: Class XII A & B

SUBJECT TEACHER NAME: Rakesh Rampuria

INSTRUCTIONS: Compulsory to attempt all in Lab Manual/Record file.

ASSIGNMENT

Activity -1 To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l,m) : l \text{ Perpendicular to } m\}$ is symmetric but neither reflexive nor transitive.

Activity -2 To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l,m) : l \text{ parallel to } m\}$ is an equivalence relation.

Activity -3 To demonstrate a function which is not one-one but is onto.

Activity - 4 To demonstrate a function which is one-one but not onto.

Activity- 5 To draw the graph of $\sin^{-1} x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$)

PYQ of CBSE Class XII Maths from last 4 years (2026,2025, 2024,2023)

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT NAME: BIOLOGY

CLASS & SECTION: XII B

SUBJECT TEACHER NAME: Dr MANJIT SINGH

INSTRUCTIONS:

The Assignment/Project Report must be in the following order:

1. Cover Page
2. Certificate
3. Acknowledgement
4. Table of Contents
5. Abstract
6. Introduction
7. Chapters
8. -do-
9. -do-
10. Conclusion
11. Bibliography

ASSIGNMENT

S No	Sch No	Name	Topic of Project
1	5990	PARIKSHIT	Study of Life cycle of a Malarial Parasite
2	5994	VIRAJ	Recombinant DNA Technology in medicines
3	5997	AKASH KUMAR SINGH	Drug and Alcohol Abuse
4	6003	HARDIK GARASIYA	Chromosomal Aberrations
5	6007	KAMLENDRA KUMAR VERMA	Evidences of Biological Evolution
6	6012	MANANYA CHOUDHARY	Drug addiction
7	6022	GUNEET MAHAL	Adaptation in Plants for Cross Pollination
8	6038	NITIN SWAMI	Mendelian Disorders
9	6039	NITESH JAT	Production of biogas from kitchen/ Cow-dung waste
10	6040	RAJYAVARDHAN SINGH NARUKA	DNA Fingerprinting
11	6042	DEEPANSHU	Study of Homologous and Analogous organs
12	6052	KRISHNA KUMAR	Sewage Treatment Plant
13	6053	ARVIND KUMAR MUNDOTIA	Human Insulin and Vaccine production
14	6057	SHUBHAM KUMAR DUBEY	Vegetative Propagation methods in plants
15	6068	ISHANT DEORA	AIDS
16	6073	HIMANSHU KUMAR	Types of Interactions among Organisms
17	6076	DIVYANSH BALDAWAT	Effect of fertilisers (chemical vs organic) on plant growth
18	6077	SHANTANU PATRA	Study of inheritance of ABO blood grouping
19	6086	HARSHVARDHAN SINGH	Human Genome Project
20	6088	SIDHARTH SINGH MAAN	Birth control measures
21	6090	ATUL	Study of Cancer
22	6096	ROHIT DAGUR	Gene Therapy Project
23	6100	PREM KUMAR	Assisted reproductive Technologies
24	6102	ANKIT RAJPUROHIT	Pollination : Types and Agents
25	D-222	VIVAAN BIHARI VYAS	Detection of adulterants in common food items

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOLIDAY HOMEWORK 2026-27

SUBJECT NAME- CHEMISTRY

CLASS & SECTION: XII

SUBJECT TEACHER NAME: TONY ABRAHAM

INSTRUCTIONS:

1. Strictly adhere to the projects given against your school number. This is for CBSE practical evaluation carrying 4 marks

ASSIGNMENT

INVESTIGATORY PROJECT WORK

To complete an Investigatory project and its write up in a separate file (List of investigatory projects is placed below. Cadets are supposed to submit the files of the projects cited against their names)

S No	Sch No	Investigatory Project (To Investigate upon)
1	5983	Cement manufacturing process
2	5985	Petroleum Refining in refineries
3	5986	Manufacturing of glass
4	5995	Study of organic food colours
5	6004	Manufacturing of Polymer - PVC
6	6009	Study of Effect of Solute Concentration on Freezing Point of H ₂ O
7	6015	Manufacturing of Polymer –Nylon
8	6016	Manufacturing of Polymer -Polyester
9	6017	Manufacturing of Ethanol
10	6024	Use and Effects of Fertilizers
11	6026	Manufacturing of Toilet soap
12	6031	Manufacturing of Detergents and its uses
13	6032	Varieties of alcohol and their uses
14	6037	Manufacturing of Soft drinks and its side effects
15	6041	Preparation and uses of biodegradable polymers
16	6043	Manufacturing of stainless steel and its uses
17	6045	Comparative Study of the pH of Different Soil Samples
18	6046	Manufacturing of Paints – Oil Paints
19	6047	Manufacturing of Paints – Water Paints
20	6067	Manufacturing of Ammonia
21	6069	Study of catalysts and their uses
22	6071	Softening of hard water
23	6074	Secondary cells/ Ni – Cad Cell & Pb storage battery
24	6075	Primary Cells – Dry cell and Mercury cell
25	6083	Cement manufacturing process
26	6089	Petroleum Refining in refineries
27	6095	Manufacturing of glass
28	D-210	Study of organic food colours
29	D-217	Manufacturing of Polymer - PVC
30	D-224	Study of Effect of Solute Concentration on Freezing Point of H ₂ O
31	5990	Manufacturing of Polymer –Nylon
32	5994	Manufacturing of Polymer -Polyester
33	5997	Manufacturing of Ethanol
34	6003	Use and Effects of Fertilizers
35	6007	Manufacturing of Toilet soap
36	6012	Manufacturing of Detergents and its uses
37	6022	Varieties of alcohol and their uses

38	6038	Manufacturing of Soft drinks and its side effects
39	6039	Preparation and uses of biodegradable polymers
40	6040	Manufacturing of stainless steel and its uses
41	6042	Comparative Study of the pH of Different Soil Samples
42	6052	Manufacturing of Paints – Oil Paints
43	6053	Manufacturing of Paints – Water Paints
44	6057	Manufacturing of Ammonia
45	6068	Study of catalysts and their uses
46	6073	Cement manufacturing process
47	6076	Petroleum Refining in refineries
48	6077	Manufacturing of glass
49	6086	Study of organic food colours
50	6088	Manufacturing of Polymer - PVC
51	6090	Study of Effect of Solute Concentration on Freezing Point of H ₂ O
52	6096	Manufacturing of Polymer –Nylon
53	6100	Manufacturing of Soft drinks and its side effects
54	6102	Separation and Comparison of Pigments in Different Leaves
55	D-222	Preparation of a Natural Acid-Base Indicator from Red Cabbage

Note: The Investigatory File should contain the following pages

Page:1 Aim

Page:2 Introduction

Page:3 Requirements

Page:4 Theory

Page:5 Diagrams/Figures

Page:6 Equations if any

Page:7 Industrial / Domestic uses

Page:8 Conclusion

Page:9 References

(Strictly adhere to the projects given against your school number. This is for CBSE practical evaluation carrying 4 marks)

(Tony Abraham)
PGT Chemistry

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT NAME: COMPUTER SCIENCE

CLASS & SECTION: XII

SUBJECT TEACHER NAME: MR MANOJ SINGH

INSTRUCTIONS:

- Attempt all the questions in a separate homework notebook, writing the chapter and question number clearly.
- Write all answers neatly in your own handwriting; copying or printouts will not be accepted.
- Write the SQL queries neatly, and draw the given tables wherever a question refers to them.
- Submit the notebook on the day the school reopens.

ASSIGNMENT

CHAPTER NO. 8: COMPUTER NETWORKS – I

Q1. MCQ

- a. URLs are of two types:
(I) Absolute & Relative (II) Static & Dynamic (III) Absolute & Dynamic (IV) None of the above
- b. An email can be sent via
(I) PC (II) Tablet (III) Smart phone (IV) All of the above
- c. In an email address, the characters following the '@' character represent
(I) User name (II) E-mail Recipient (III) Domain name (IV) None of these
- d. The field of email-compose box allows to send the same message to multiple recipients without letting them know about other recipients.
(I) cc (II) To (III) bcc (IV) Message
- e. Chatting on Internet is
(I) Talking face to face (II) Talking on phone (III) Online textual talk (IV) None of these
- f. A room or online forum allows users to communicate through typed messages which are displayed almost instantly.
(I) Mail (II) Buddy (III) Chat (IV) Message
- g. Online textual talk is called
(I) video Conferencing (II) Telephony (III) Text Phone (IV) Chat
- h. Electronic mail cannot be used for
(I) Sending documents (II) Sending bulk data (say over 2GB) (III) Sending attachments (IV) Sending messages

Fill in the blanks:

- i. The landing page of a website is
- j. A webpage whose content is generated every time it is loaded is called a webpage.
- k. A webpage whose content is fixed and appears the same every time it is loaded, is called a
- l. A is a specialised computer which serves the requests made by web browsers.
- m. Full form of URL is
- n. Full form of cc in the context of email is
- o. Full form of bcc in the context of email is
- p. Full form of IP is
- q. Full form of VoIP is
- r. Websites store the browsing activity through

Q2. Short Answer

- a. Discuss some advantages and limitations of E-mail.
- b. Discuss the structure of an email message in brief.
- c. What is Chatting? Is it necessary to be online (i.e., connected to Internet) while chatting?

Q3. Long Answer

- a. What is VoIP? How does it work?

- b. What are cookies? What is their utility?
- c. What are plugins? How do you install these on a web browser?

CHAPTER NO. 9: **COMPUTER NETWORKS – II**

Q1. MCQ

- a. A web-site is a collection of
(I) HTML documents (II) Graphic files (III) audio and video files (IV) all the above
- b. The first page that you normally view at a web site is its
(I) Home page (II) Master page (III) First page (IV) banner page
- c. When you visit a website, it will open the page set as of the website.
(I) Web Site (II) Home page (III) Email (IV) ISP
- d. The first page on a website that allows you to navigate to other pages via menu system or links, is known as
(I) Front page (II) Primary page (III) Home page (IV) 1st page (V) main page
- e. IP stands for
(I) Internet Protocol (II) Intranet Protocol (III) Internet Provider (IV) Internet Package
- f. URL stands for
(I) Universal Resource Locator (II) Uniform Resource Location (III) Uniform Resource Locator (IV) None of the above
- g. Which of these is not a part of URL?
(I) IP address (II) Port Number (III) Domain Name (IV) None of these
- h. Which portion of the URL below records the directory or folder of the desired resource?
`http://www.somestore.com/firstfloor/shoes.htm`
(I) http (II) firstfloor (III) shoes.htm (IV) www.somestore.com
- i. In URL, `http://www.pacein.com/pr/main.htm`, which component identifies the protocol or type of the server?
(I) http (II) www.pacein.com (III) /pr/main.htm (IV) none
- j. In URL, `http://www.pacein.com/pr/main.htm`, which component identifies the website?
(I) http (II) www.pacein.com (III) /pr/main.htm (IV) none
- k. In URL, `http://www.pacein.com/pr/main.htm`, which component identifies the path of a web page?
(I) http (II) www.pacein.com (III) /pr/main.htm (IV) none

Fill in the blanks:

- l. The Internet is most often used for the exchange of and
- m. Web pages on a site are linked together through a system of
- n. The address of location of the document on the world wide web is called its
- o. The is a computer based worldwide communication network.
- p. The is a component of the Internet that allows exchange of multimedia based and hyperlinked content.
- q. Full form of WWW is
- r. A digital document hosted on a website is a

Q2. Short Answer

- a. What is Internet?
- b. Mention some uses of Internet.
- c. What do you understand by the term URL?
- d. In what way is the World Wide Web different from other servers on the Internet?

Q3. Long Answer

- a. Differentiate between a web browser and web server.
 - b. Explain the following terms: (i) Web page (ii) Home page
 - c. Identify domain name(s) and URL(s) from the following list:
 - (i) `yoga@yoga.com`
 - (ii) `doYogaEveryday.com`
 - (iii) `www.doYogaEveryday.com/old/index.html`
 - (iv) `www.PerformingArts_schools.org/backlink.htm`
 - (v) `192.168.0.1`
 - (vi) `http://cbse.nic.in`
-

CHAPTER NO. 10: **RELATIONAL DATABASES**

Q1. MCQ

- a. What is the full form of SQL?
(I) Structured Query Language (II) Structured Query List (III) Simple Query Language
(IV) None of these
- b. What is the full form of DDL?
(I) Dynamic Data Language (II) Detailed Data Language (III) Data Definition Language
(IV) Data Derivation Language
- c. What does DML stand for?
(I) Different Model Level (II) Data Model Language (III) Data Mode Lane (IV) Data Manipulation Language
- d. Which is the subset of SQL commands used to manipulate database structures, including tables?
(I) Data Definition Language (DDL) (II) Data Manipulation Language (DML) (III) Both (I) and (II) (IV) None
- e. Which of the following sublanguages of SQL is used to define the structure of the relation, deleting relations and relating schemas?
(I) DML (Data Manipulation Language) (II) DDL (Data Definition Language) (III) Query
(IV) Relational Schema
- f. Which of the following sublanguages of SQL is used to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database?
(I) DML (Data Manipulation Language) (II) DDL (Data Definition Language) (III) Query
(IV) Relational Schema
- g. Which of the following keywords will you use in the following query to display the unique values of the column dept_name?

```
SELECT ..... dept_name FROM Company;
```


(I) ALL (II) From (III) Distinct (IV) Name
- h. Which of the following keywords will you use in the following query to display all the values of the column dept_name?

```
SELECT ..... dept_name FROM Company;
```


(I) ALL (II) From (III) Distinct (IV) Name
- i. The clause of SELECT query allows us to select only those rows in the result that satisfy a specified condition.
(I) Where (II) from (III) having (IV) like
- j. Consider the following query. Which comparison operator may be used to fill the blank space in the query?

```
SELECT name FROM class WHERE subject ..... NULL;
```


(I) = (II) like (III) IS (IV) IS NOT
- k. In SQL, which command is used to SELECT only one copy of each set of duplicate rows?
(I) SELECT DISTINCT (II) SELECT UNIQUE (III) SELECT DIFFERENT (IV) All of the above

Fill in the blanks:

- l. The SQL keyword is used to specify the table(s) that contains the data to be retrieved.
- m. To remove duplicate rows from the result of a query, specify the SQL qualifier in select list.
- n. To obtain all columns, use a(n) instead of listing all the column names in the select list.
- o. The SQL clause contains the condition that specifies which rows are to be selected.
- p. When two conditions must both be true for the rows to be selected, the conditions are separated by the SQL keyword
- q. To refer to a set of values needed for a condition, we can use the SQL operator
- r. To exclude one or more values (a list of values) using a condition, the SQL keyword is used.

Q2. Short Answer

- a. What is SQL? What are different categories of command available in SQL?
- b. Differentiate between DDL and DML commands.
- c. Differentiate between CHAR and VARCHAR datatypes.
- d. What is a "data type"? What are the main objectives of datatypes?

Q3. Long Answer

- a. Answer the following:
 - (i) Write two examples of DBMS software.
 - (ii) What is meant by NULL value in MySQL?
 - (iii) Table 'Club' has 4 rows and 3 columns. Table 'Member' has 2 rows and 5 columns. What will be the cardinality of the Cartesian product of them?

b. Consider the following table named "GARMENT". Write SQL commands for (i) to (iv).

Table: GARMENT

GCODE	GNAME	SIZE	COLOUR	PRICE
111	TShirt	XL	RED	1400.00
112	Jeans	L	BLUE	1600.00
113	Skirt	M	BLACK	1100.00
114	Ladies Jacket	XL	BLUE	4000.00
115	Trousers	L	BROWN	1500.00
116	Ladies Top	L	PINK	1200.00

- (i) To display names of those garments that are available in 'XL' size.
- (ii) To display codes and names of those garments that have their names starting with 'Ladies'.
- (iii) To display garment names, codes and prices of those garments that have price in the range 1000.00 to 1500.00 (both 1000.00 and 1500.00 included).
- (iv) To change the colour of garment with code 116 to 'orange'.

c. Consider the following table named "SOFTDRINK". Write SQL commands for (i) to (iv).

Table: SOFTDRINK

DRINKCODE	DNAME	PRICE	CALORIES
101	LIME AND LEMON	20	120
102	APPLE DRINK	18	120
103	NATURE NECTOR	15	115
104	GREEN MANGO	15	140
105	AAM PANNA	20	135
106	MANGO JUICE BAHAR	12	150

- (i) To display names and drink codes of those drinks that have more than 120 calories.
- (ii) To display drink codes, names and calories of all drinks, in descending order of calories.
- (iii) To display names and price of drinks that have price in the range 12 to 18 (both 12 and 18 included).
- (iv) Increase the price of all drinks in the given table by 10%.

PROJECT WORK:

Title: Student Record Management System Using SQL

Related Chapter: Relational Databases

Objective: To create and manage a database using SQL commands.

Practical Tasks

1. Create a database named SCHOOL_DB.
2. Create a table named STUDENT with the fields RollNo, Name, Class, Section, ComputerMarks and City.
3. Insert at least 10 sample student records using fictional data.
4. Display all student records.
5. Display students scoring more than 80 marks in Computer Science.
6. Display students belonging to a particular city.
7. Display student names and marks in descending order of marks.
8. Use DISTINCT to display unique city names.
9. Update the marks of a student and delete one sample record.
10. Demonstrate the use of WHERE, ORDER BY, BETWEEN, IN and UPDATE wherever appropriate.

Instructions for Submission

1. Complete the project independently at home using MySQL or another suitable SQL environment.
2. Prepare an SQL script file containing the database creation, table creation, insertion and required SQL queries.
3. Take screenshots of the executed SQL commands and their outputs.
4. Prepare a short report explaining the database structure and the queries used.
5. Place the SQL script, screenshots and report in a single folder and compress it into a ZIP file.
6. Name the ZIP file using the format: ClassXII_Name_RollNo_SQLProject.zip
7. Send the ZIP file as an email attachment to sschittor.computer@gmail.com

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOMEWORK

ENGLISH

CLASS & SECTION:XII- A &B

SUBJECT TEACHER NAME: MRS POOJA
SINGH SISODIA

INSTRUCTIONS: Assignment - The project must be made in a file, addressing all the specified points and showcasing your creativity.

ASSIGNMENT

(For Section –A Cadets)

Based on the chapter the interview by Christopher Silvester

Project title- *“Beyond the Questions: Exploring the Power, Ethics and Art of Interviews”*

Objectives:

- *To understand interviews as powerful instruments of communication, information gathering and public discourse.*
- *To critically examine the ethical responsibilities of interviewers and the influence of interviews on public perception.*
- *To develop research, questioning, active listening and analytical skills.*
- *To explore the relationship between truth, personal identity, media representation and journalistic responsibility.*

Guidelines for the Project File:

- 1. Cover Page: Include the project title and relevant illustrations or photographs.*
- 2. Cadet's details*
- 3. Literary Exploration: Introduce the author and summarize the chapter, highlighting contrasting perspectives on interviews and the significance of Umberto Eco's conversation with Mukund Padmanabhan.*
- 4. Thematic Analysis: Critically examine interviews as a source of truth, an intrusion into privacy and a medium of public influence. Discuss the ethical dilemmas surrounding personal questioning and media sensationalism.*
- 5. Research-Based Investigation: Select two interviews of prominent personalities from different fields, such as literature, science, sports or public service. Compare their interviewing styles, questioning techniques, ethical considerations and effectiveness in revealing meaningful information.*
- 6. Practical Interview Activity: Prepare a questionnaire comprising 8–10 thought-provoking questions and conduct an interview with a teacher, professional, sportsperson or any individual whose*

experiences offer valuable insights. Present a transcript of selected responses along with an analysis of the interview.

7. **Critical and Creative Writing:** Write an analytical article of approximately 150–200 words titled “Behind the Microphone: Do Interviews Reveal the Truth or Construct an Image?” Support your viewpoint with relevant examples.

8. **Reflection and Conclusion:** Reflect on the qualities of an effective interviewer, the importance of ethical communication and the insights gained through conducting the interview.

9. **Bibliography:** Acknowledge the NCERT textbook, published interviews, articles, digital sources and personal interviews consulted.

(For Section – B Cadets)

Based on the play on the face of it by Susan Hill

Project title–“Beyond Visible Differences: Breaking Barriers, Challenging Prejudices and Embracing Inclusion”

Objectives:

- To explore the themes of alienation, prejudice, loneliness, self-acceptance and emotional resilience.
- To critically analyse how social attitudes influence the identity, confidence and psychological well-being of individuals with disabilities or visible differences.
- To develop empathy, inclusivity, research skills and sensitivity towards human diversity.
- To understand the transformative power of compassion, positive relationships and meaningful communication.

Guidelines for the Project File:

1. **Cover Page:** Include the project title and relevant illustrations or photographs.
2. **Cadet's details**
3. **Literary Exploration:** Introduce the playwright and summarize the play, focusing on the contrasting personalities of Derry and Mr Lamb and the transformation in Derry's outlook towards life.
4. **Thematic and Character Analysis:** Examine the themes of social prejudice, isolation, self-perception, acceptance and human connection. Analyse how Mr Lamb challenges Derry's negative beliefs and encourages him to embrace life with confidence.
5. **Research-Based Investigation:** Investigate the social, educational and psychological barriers experienced by persons with disabilities. Examine the importance of accessibility, equal opportunities and inclusive attitudes.
6. **Inspirational Case Study:** Research the life and achievements of an individual who has overcome disability-related barriers or social prejudice. Analyse the challenges encountered, the role of social support and the lessons that can be drawn from the individual's journey.
7. **Field-Based Activity:** Conduct a short interview with an educator, counsellor, accessibility professional or other knowledgeable individual about the importance of inclusion and respectful attitudes.
8. **Creative and Reflective Writing:** Write a reflective article of approximately 150–200 words titled “Beyond Sympathy: The Power of Dignity, Acceptance and Inclusion.” Relate your observations to the message conveyed through the characters of Derry and Mr Lamb.
9. **Reflection and Conclusion:** Suggest practical measures to promote an inclusive and empathetic environment in schools and society. Conclude by reflecting on how attitudes, rather than physical differences alone, can create barriers to meaningful participation.

10. *Bibliography: Acknowledge the NCERT textbook, research materials, official publications, case studies and interviews consulted.*

NOTE: This project is a part of your Internal assessment. Use your creativity, include relevant pictures and compile in a file. A4 size paper to be used.

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT NAME: PHYSICS				
CLASS & SECTION: XII A & B		SUBJECT TEACHER NAME: ONKAR SINGH		
INSTRUCTIONS: Prepare a working model or assigned project and file it in the following format				
1. Certificate	2. Material/Components	3. Working principle	4. Circuit diagram	
5. Conclusion	6. Application	7. Reference/bibliography		

ASSIGNMENT

Prepare the projects allotted against your names during the Autumn Break 2026–27.				
PROJECT WORK:				
CLASS XII A				
SER	SCH NO	NAME	HOUSE	PROJECT WORK
1	5983	BHUPENDRA ROLANIYA	HAMIR	HALF WAVE RECTIFIER
2	5985	NARENDRA KUMAR	LUV	FULL WAVE RECTIFIER
3	5986	BHAGAT SINGH	HAMIR	MUTUAL INDUCTION
4	5995	DEVESH CHANDRA	BADAL	OR, NOT & AND GATE
5	6009	RESHAV	HAMIR	AUTOMATIC STREET LIGHT
6	6015	HIMANSHU	JAIMAL	AUTOMATIC IRRIGATION SYSTEM
7	6016	AMIT KUMAR	LUV	DIFFRACTION OF LIGHT
8	6017	YATHARTH	PRATAP	INTERFERENCE OF LIGHT
9	6024	PRINCE	BADAL	POLARISATION OF LIGHT
10	6031	ALKESH	SANGA	AUTOMATIC OPEN/CLOSE DOOR SENSOR
11	6032	YUVRAJ SINGH BAGHEL	SANGA	RADAR DETECTION SYSTEM
12	6037	DIVYANSH CHAHAR	JAIMAL	ELECTROMAGNETIC INDUCTION
13	6041	DEVENDRA SINGH	KUMBHA	CLAP SWITCH
14	6043	KALPESH	BADAL	SMART ATTENDANCE SYSTEM
15	6045	LUCKY	SANGA	BICYCLE RUNNING WITH SOLAR COMBINED WITH BATTERY
16	6046	CHAUDHARY PRASHANT ARYA	LUV	TOTAL INTERNAL REFLECTION
17	6047	NARENDRA KUMAR JAT	KUMBHA	GAS LEAKAGE DETECTOR
18	6067	KARAN PRATAP SINGH	KUSH	WITHOUT WEARING HELMET BIKE WILL NOT START
19	6069	DIVY PRATAP SINGH SHEKHAWAT	BADAL	SOLAR POWERED PHONE CHARGER
20	6074	DINESH KUMAR	LUV	WATER LEVEL INDICATOR
21	6075	KARAN SINGH	KUSH	AUTOMATIC FIRE CO ₂ EXTINGUISHER
22	6089	DEVESH KUMAR ARYA	PRATAP	AUTOMATIC WATERING TO THE PLANTS
23	6095	MADHUSUDAN SINGH RATHORE	PRATAP	ELECTRICITY GENERATION BY USING WASTE
24	D-210	KANHAIYA LAL SHARMA	LUV	ELECTRICITY PRODUCED BY WALKING
25	D-224	ADWAY SINGH JASROTIA	SANGA	WHEATSTONE BRIDGE CIRCUIT & ITS USES
26	6026	GAURAV YADAV	PRATAP	AUTOMATED RIVER CLEANING
27	6004	ROHIT MEENA	LUV	IRON DOME
28	6071	RAJVEER BAKOLIYA	HAMIR	OBSTACLE AVOIDANCE ROBOT
29	6083	KHUSHWANT SINGH	KUMBHA	LINE FOLLOWING ROBOT
30	D-217	TWINKLE BISHT	PADMINI HOUSE	INDUCED EMF
CLASS XII B				
31	5990	PARIKSHIT	JAIMAL	HALF WAVE RECTIFIER
32	5994	VIRAJ	JAIMAL	FULL WAVE RECTIFIER
33	5997	AKASH KUMAR SINGH	KUSH	MUTUAL INDUCTION
34	6003	HARDIK GARASIYA	KUSH	OR, NOT & AND GATE
35	6007	KAMLENDRA KUMAR VERMA	KUMBHA	AUTOMATIC STREET LIGHT

36	6012	MANANYA CHOUDHARY	JAIMAL	ESCALATOR
37	6022	GUNEET MAHAL	KUMBHA	DIFFRACTION OF LIGHT
38	6038	NITIN SWAMI	HAMIR	INTERFERENCE OF LIGHT
39	6039	NITESH JAT	KUMBHA	POLARISATION OF LIGHT
40	6040	RAJYAVARDHAN SINGH NARUKA	BADAL	AUTOMATIC OPEN/CLOSE DOOR SENSOR
41	6042	DEEPANSHU	HAMIR	RADAR DETECTION SYSTEM
42	6052	KRISHNA KUMAR	KUSH	ELECTROMAGNETIC INDUCTION
43	6053	ARVIND KUMAR MUNDOTIA	PRATAP	BLIND MAN GLASSES
44	6057	SHUBHAM KUMAR DUBEY	HAMIR	INDUCED EMF
45	6068	ISHANT DEORA	JAIMAL	BICYCLE RUNNING WITH SOLAR COMBINED WITH BATTERY
46	6073	HIMANSHU KUMAR	SANGA	TOTAL INTERNAL REFLECTION
47	6077	SHANTANU PATRA	KUMBHA	GAS LEAKAGE DETECTOR
48	6086	HARSHVARDHAN SINGH SISODIYA	SANGA	WHEATSTONE BRIDGE CIRCUIT & ITS USES
49	6088	SIDHARTH SINGH MAAN	SANGA	SOLAR POWERED PHONE CHARGER
50	6090	ATUL	KUMBHA	WATER LEVEL INDICATOR
51	6096	ROHIT DAGUR	HAMIR	AUTOMATIC FIRE CO ₂ EXTINGUISHER
52	6100	PREM KUMAR	SANGA	AUTOMATIC WATERING TO THE PLANTS
53	6102	ANKIT RAJPUROHIT	SANGA	ELECTRICITY GENERATION BY USING WASTE
54	6076	DIVYANSH BALDAWAT	KUSH	ELECTRICITY PRODUCED BY WALKING
55	D-222	VIVAAN BIHARI VYAS	KUSH	WITHOUT WEARING HELMET BIKE WILL NOT START

Note: All cadets are required to submit their project duly completed and ready for submission on reopening of the school. **This is CBSE evaluative project work.**