HOLIDAY HOMEWORK

CLASS XII, SESSION: 2025-26

HANSRAJ PUBLIC SCHOOL
SECTOR-6, PANCHKULA

Message from the Principal

Dear Children

Success is no accident, it is hard work, perseverance, learning, studying, sacrifice and most of all love for what we are doing or learning to do

Hansraj has once again proved this with the outstanding result exhibited by class X and XII students. It gives me an immense sense of pride and satisfaction to see all Hansarians consistently display excellence in multiple fields be it academics, sports extra curriculars or innovation. I take up this opportunity to congratulate all the stakeholders of the school for this noteworthy success. It is their positive and collaborative partnership that has led the school to scale higher goals .

The last few weeks saw the country go through unprecedented upheavals. The lesson to be learnt from the experience is to face sudden challenges posed by life with a strength of mind and belief in ourselves. And then nothing can stop us from achieving success.

The present session began eventfully and now it is time for much awaited summer vacations. As we embark on our well-deserved break, I encourage you to utilize these holidays productively. Here are some suggestions:

Read: Explore new books, authors, or genres.

Learn: Acquire new skills or hobbies.

Reflect: Think about your goals and aspirations.

Relax: Recharge and rejuvenate.

Give back: Engage in community service or volunteer work.

Explore: Travel to new places with your family, explore unfamiliar cuisines, customs and cultures.

Family time: Visit your grandparents, spend quality time with them and your family.

Exercise: Go for nature walks, do Yoga and practice a sport.

The Holiday Homework has been planned for you, with much thought so as to help you enjoy putting in practice what you have learnt. The projects included are research based with the aim to extend your knowledge, thinking skills and creativity. As always, the holiday homework will be assessed and the best ones will receive recognition. I wish you all the luck for it.

Make the most of your break and return refreshed and motivated!

Jai Hind

Jaya Bhardwaj
Principal

ENGLISH

IMPORTANT INSTRUCTIONS:
Answers to all the questions have to be done in the respective notebooks.
Only ANSWERS should be written.

READING:

1. The man with the white face entered the carriage at Rugby. He moved slowly in spite of the urgency of his porter, and even while he was still on the platform I noted how ill he seemed. He dropped into the corner over against me with a sigh, made an incomplete attempt to arrange his travelling shawl and became motionless, with his eyes staring vacantly. Presently he was moved by a sense of my observation, looked up at me, and put out a spiritless hand for his newspaper. Then he glanced again in my direction. I feigned to read. I feared I had unwittingly embarrassed him, and in a moment I was surprised to find him speaking.

2. "I beg your pardon?" said I.

"That book," he repeated, pointing a lean finger, "is about dreams."

"Obviously," I answered, for it was Fortnum Roscoe's Dream States, and the title was on the cover.

He hung silent for a space as if he sought words.

"Yes," he said at last, "but they tell you nothing."

I did not catch his meaning for a second.

"They don't know," he added. I looked a little more attentively at his face.

"There are dreams," he said, "and dreams."

That sort of proposition I never dispute.

"I suppose--" he hesitated. "Do you ever dream? I mean vividly."

"I dream very little," I answered. "I doubt if I have three vivid dreams in a year."

"Ah!" he said and seemed for a moment to collect his thoughts.

"Your dreams don't mix with your memories?" he asked abruptly.

"You don't find yourself in doubt; did this happen or did it not?"

"Hardly ever. Except just for a momentary hesitation now and then. I suppose few people do."

"Does he say--?" He indicated the book.

"Says it happens at times and gives the usual explanation about intensity of impression and the like to account for its not happening as a rule. I suppose you know something of these theories--" "Very little--except that they are wrong."

3. His emaciated hand played with the strap of the window for a time. I prepared to resume reading, and that seemed to precipitate his next remark. He leant forward almost as though he would touch me.

"Isn't there something called consecutive dreaming--that goes on night after night?"

"I believe there is. There are cases given in most books on mental trouble."

"Mental trouble! Yes. I daresay there are. It's the right place for them. But what I mean--" He looked at his bony knuckles. "Is that sort of thing always dreaming? Is it dreaming?

 Or is it something else? Mightn't it be something else?"

4. I should have snubbed his persistent conversation but for the drawn anxiety of his face. I remember now the look of his faded eyes and the lids red stained--perhaps you know that look. "I'm not just arguing about a matter of opinion," he said.

"The thing's killing me."

"Dreams?"

"If you call them dreams. Night after night. Vivid!—so vivid . . . this--" (he indicated the landscape that went streaming by the window) "seems unreal in comparison! I can scarcely remember who I am, what business I am on . . . ."He paused. "Even now--"

"The dream is always the same--do you mean?" I asked.

"It's over."

"You mean?"

"I died."

"Died?"

5. "Smashed and killed, and now, so much of me as that dream was, is dead. Dead forever. I dreamt I was another man, you know, living in a different part of the world and in a different time.I dreamt that night after night. Night after night I woke into that other life. Fresh scenes and fresh happenings--until I came upon the last--"

"When you died?"

"When I died."

"And since then--"

"No," he said. "Thank God! That was the end of the dream.. . "

6. It was clear I was in for this dream. And after all, I had an hour before me, the light was fading fast, and Fortnum Roscoe has a dreary way with him. "Living in a different time," I said: "do you mean in some different age?"

"Yes."

"Past?"

"No, to come--to come."

"The year three thousand, for example?"

"I don't know what year it was. I did when I was asleep, when I was dreaming, that is, but not now--not now that I am awake.

There's a lot of things I have forgotten since I woke out of these dreams, though I knew them at the time when I was--I suppose it was dreaming. They called the year differently from our way of calling the year . .

. What did they call it?" He put his hand to his forehead. "No," said he, "I forget." He sat smiling weakly. For a moment I feared he did not mean to tell me his dream. As a rule, I hate people who tell their dreams, but this struck me differently. I proffered assistance even. "It began--" I suggested.

7. "It was vivid from the first. I seemed to wake up in it suddenly. And it's curious that in these dreams I am speaking of I never remembered this life I am living now. It seemed as if the dream life was enough while it lasted. Perhaps--But I will tell you how I find myself when I do my best to recall it all. I don't remember anything clearly until I found myself sitting in a sort of loggia looking out over the sea. I had been dozing, and suddenly I woke up--fresh and vivid--not a bit dreamlike—because the girl had stopped fanning me."

(956 words)

-adapted from A Dream of Armageddon by H.G.Wells

On the basis of your reading of the above excerpt, choose the correct option to answer the following questions: (Any Twelve)

(a) How did the man with the white face behave as he entered the carriage?

(i) Excited and enthusiastic   (ii) Scared

(iii) Excited and nervous   (iv) showed no enthusiasm.

(b) What was the name of the book which the narrator was reading?

(i) Fortnum Roscoe's Dream States   (ii) Dream States

(iii) Dreams of the States   (iv) State of the Dream

(c) What was the man's opinion about the theory of dreams given in the narrator's book?

(i) He felt that it was all correct

(ii) He felt the book painted a wrong picture.

(iii) He felt that the book explained nothing.

(iv) He felt that the book was confusing.

(d) Statement 1: The narrator couldn't snub the man's conversation.

Statement 2: The man with the white face looked anxious.

(i) Both 1 & 2 are correct and 2 is the reason for 1.

(ii) Both 1 & 2 are correct and 2 is not the reason for 1.

(iii) 1 is correct and 2 is incorrect.

(iv) Both 1 & 2 are incorrect.

(e) What is NOT the reason for narrator being interested in listening to the man's description of his last dream?

(i) The man's dream was about an alien.

(ii) It was getting dark.

(iii) The narrator had still an hour's journey left.

(iv) His book was getting boring.

(f) What did the man NOT say about the last dream which he had?

(i) It was a dream which wasn't clear.

(ii) He was sitting in the loggia.

(iii) His last dream was very clear.

(iv) He would wake up in these dreams suddenly.

(g) Choose the correct option:

Which of the following is NOT true for the Man with the white face?

(i) He moved around slowly.

(ii) He looked sickly.

(iii) He didn't want to talk about his dream.

(iv) He didn't believe in theories of Fortnum Roscoe's Dream States

(h)"I dream very little," I answered. "I doubt if I have three vivid dreams in a year. This line highlights that the narrator did not –

(i) Have normal dreams.

(ii) Good sleep pattern.

(iii) Give much importance to the science behind dreams.

(iv) like talking to the man with the white face.

(i) How does the use of vivid and descriptive language in the passage enhance the reader's understanding of the man's experience?

(j) Complete the sentence appropriately.

It is fair to say that the man's experience of consecutive dreaming is similar with being lost in a maze because _____.

(k) Choose the right answer which explains the phrase:

He hung silent for a space as if he sought words.

(i) he was at a loss of words.

(ii) he was indecisive.

(iii) he was left hanging because of his indecisiveness.

(iv) he stayed silent for some time as if he searched for words.

(l) State whether the following opinion is TRUE or FALSE.

 The author implies that memory and consciousness are not objective, but rather are shaped by our subjective experiences and perceptions.

WRITING:

Q1. As Librarian of Crescent International School, Gwalior, draft a notice in not more than 50 words asking all students and teachers to return the library books they have borrowed, two days before the commencement of the examination.

Q2. You are Mithila, H-16B, RK Puram, New Delhi. You are witnessing a number of incidents of crime against women in your city, especially eve-teasing. Write a letter to the Editor of The Times of India, expressing your concern over the issue.

 Q3. You are Amit, Headboy of G.D Public school ,Jammu ,your school is conducting a seminar on 'Art Therapy the Way Forward'. This Seminar is to introduce students to the usefulness of art in dealing with personal and social problems. Dr. S, a certified art therapist from Leh is coming to address the students. Draft a colourful invitation on A4 size sheet for the parents inviting them to the semunar.

PROJECT:

Make a project based on the given specifications. This project will be an integration of your AIL project and Speaking Activity. Hard copy of the project will comprise of three pages. Remember it is an ART integrated project, make it in a tasteful manner using different creative ideas on half chart.

 Division of the content will be as follows:

Sr. No.	Title of the Project	What to do
1. Roll No. 1 to 6 (Com)	Voices of Change: Speeches that Shaped the World	Present excerpts from famous speeches (e.g., Martin Luther King Jr., Malala Yousafzai, Gandhi's "Quit India").
2. Roll No. 7 to 12 (Com)	Icons of Indian Literature Project Type: Author gallery or timeline	Display profiles of literary icons like Rabindranath Tagore, Ruskin Bond, Arundhati Roy, Mahasweta Devi. Include a quote board with their most famous lines.
3. Roll No. 14 to 21(Com)	Words that Changed the World Project Type: Interactive poster or	Showcase key slogans or quotes from history (e.g., "Jai Jawan Jai Kisan," "Yes We Can," etc.) and their impact.
4. Roll No. 1 to 7 (Hum)	Poetry for Change Project Type: Poetry wall or live reading corner	Display and perform poems on social themes like equality, environment, peace (can include original student poems too).
5. Roll No. 7 to 14 (Hum)	Rewriting the Classics Project Type: Creative writing corner	Take a scene from a classic novel or play (e.g., Macbeth, The Tempest, Pride and Prejudice) and rewrite it with a modern or futuristic twist.
6. Roll No. 1 to 10 (Non Med)	Iconic Characters Who Inspired Generations Project Type: Character profiles or roleplay	Present iconic literary characters (e.g., Atticus Finch, Anne Frank, Harry Potter, Elizabeth Bennet) and how they changed aders' views.
7. Roll No. 11 to 16 (Non Med) Roll No. 1 to 4 (Med)	Pen is Mightier: Journalists and Authors Who Made a Difference Project Type: Wall of Fame	Feature journalists and authors who brought change through writing (e.g., Khushwant Singh, Nirbhaya case coverage, Harsha Bhogle in sports journalism).

CHEMISTRY

Q1. Do the back exercise questions from lesson 1,2,3, and 6

Q2. All the students are to prepare a Chemistry Project. Choose the topic from the topics given below. It has to be neatly hand written, with minimum of ten pages, and pictures pasted on blank side. Get it spiral binded and submit it by July 31,2025.

1.Study of the presence of oxalate ions in guava fruit at different stages of ripening.

2.Study of quantity of casein present in different samples of milk.

3. Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.

4.Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.)

5. Study of digestion of starch by salivary amylase and effect of pH and temperature on it.

6. Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc.

7.Extraction of essential oils present in Saunf (aniseed), Ajwain (carom), Illaichi (cardamom).

8. Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chili powder and pepper.

Note: Any other investigatory project, can be chosen with the approval of the teacher.

ACCOUNTANCY

Topic: Project Work in Accountancy

Select a public limited company (preferably an Indian Company). Search its annual report for the accounting year 2023-24/ 2024-25. Take the print out of company's:

(a) Consolidated Balance Sheet

(b) Consolidated Statement of Profit and Loss

(c) Consolidated Cash Flow Statement.

Now write in A4 size loose sheets;

Introduction and brief history of the company

Products it deal in (with pictures)

Company's Board of Directors (with pictures). You may take the print out from the annual report.

Write the cash flow statement.

- A zoom session will be conducted in the first week of summer break to answer the queries if any regarding the project work.

Revise Chapter 1-3.

BUSINESS STUDIES

Topic: Project Work in Business Studies

Choose a topic for your project from the given four:

(a) Principles of Management (by Fayol)

(b) Business Environment

(c) Marketing

(d) Stock Market

Prepare the project work as per the guidelines given by CBSE and class discussion in A4 size loose sheets and collect relevant pictures for the project.

Prepare 5 Case based questions from chapter 1-3 and 11 in Business Studies register with answer.

- A zoom session will be conducted in the first week of summer break to answer the queries if any regarding the project work.
- Project work should be developed strictly as per the CBSE guidelines discussed in class.

MATHEMATICS

ART INTEGRATION PROJECT-

Every student will prepare one art integration project compulsorily as per following instructions-

(a) Students from roll no. 1 to 8 are required to create a colorful art integrating project on one of the following topics:

"*Relation And Function, Inverse trigonometry, Determinants or Derivatives* " based on real life situation with the help of neat diagrams on the chosen topic

(b) Students from roll no. 9 to 18 are required to create project on one of the following topics:

"Parabolic *shapes (for example bridge, fountain, dome shape building) from surroundings with the help of topic application of integration, Linear programming*

based on real life situation by drawing straight lines with the help of wires or sticks or threads or Probability. "

(c) Students need to mention their name, class, roll number on first page, acknowledgement on second page and minimum three pages based on the project.

Case Study Questions

Read the case study carefully and answer the following questions:

1) Sherlin and Ranjan are playing Ludo at home during summer break. While rolling the dice, Sherlin's sister Raji observed and noted the possible outcomes of the throw every time belongs to set {1, 2, 3, 4, 5, 6}. Let A be the set of players while B be the set of all possible outcomes.
A = {S, D} B = {1, 2, 3, 4, 5, 6}

Based on the above information, answer the following:

i). Let R :B -> B be defined by
R={ (x, y) :y is divisible by x}is:
(a) reflexive and transitive but not symmetric
(b) reflexive and symmetric and not transitive
(c) not reflexive but symmetric and transitive
(d) equivalence

ii) Raji wants to know the number of functions from A to B. How many number of functions are possible?

(a) 6^2
(b) 2^6
(c) 6!
(d) 2^{12}

iii) . Let R be a relation on B defined by R=\ (1, 2) , (2, 2), (1, 3), (3, 4), (3, 1), (4, 3), (5, 5)). Then R is:

(a) symmetric
(b) reflexive
(c) transitive
(d) none of these three

2) Two schools P and Q want to award their selected students on the values of Tolerance, Kindness, and Leadership. The school P wants to award Rs x each, Rs y each and Rs z each for the three respective values to 3, 2 and 1 students respectively with total award money of Rs. 2200.
School Q wants to spend Rs 3100 to award its 4, 1 and 3 students on the respective values (by giving the same award money to the three values as school P). If the total amount of award for one prize on each value is Rs1200, using matrices, find the following:

i)What is the award money for tolerance?

ii) what is the award money for leadership?

iii) what is the award money for kindness?

iv) If a matrix A is both symmetric and skew-symmetric, then write down type of matrix.

v) If A and B are two matrices such that AB = B and BA = A, then find B^2

3) Three friends Ravi, Raju and Rohit were buying and selling stationery items in a market. The price of per dozen of Pen, notebooks and toys are Rupees x, y and z respectively.
Ravi purchases 4 dozen of notebooks and sells 2 dozen pens and 5 dozen toys. Raju purchases 2 dozen toys and sells 3 dozen pens and 1 dozen of notebooks. Rohit purchases one dozen of pens and sells 3 dozen notebooks and one dozen toys.

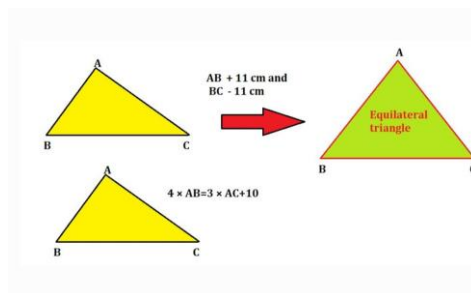In the process, Ravi, Raju and Rohit earn ₹ 1500, ₹ 100 and ₹400 respectively.

Answer the following questions using the matrix method:

 i)What is the price of one dozen of pens?

ii) What is the total price of one dozen of pens and one dozen of notebooks?

iii) What is the sale amount of Ravi?

iv) What is the amount of purchases made by all three friends?

v) What is the price of sales made by all three friends?

4) Three shopkeepers Ram Lal, Shyam Lal, and Ghansham are using polythene bags, handmade bags (prepared by prisoners), and newspaper envelopes as carrying bags. It is found that the shopkeepers Ram Lal, Shyam Lal, and Ghansham are using (20,30,40), (30,40,20), and (40,20,30) polythene bags, handmade bags, and newspapers envelopes respectively. The shopkeeper's **Ram Lal, Shyam Lal, and Ghansham spent ₹250, ₹270, and ₹200 on these carry bags respectively.**

   i)what is the cost of one polythene bag?

   ii) What is the cost of one handmade bag?

   iii) What is the cost of one newspaper bag?

   iv) Keeping in mind the social conditions, which shopkeeper is better?

   v) Keeping in mind the environmental conditions, which shopkeeper is better?

5) The determinant of a matrix A is denoted det(A) or |A|. Using determinants/ Matrices calculate the following:
Ram purchases 3 pens, 2 bags, and 1 instrument box and pays ₹ 41. From the same shop, Dheeraj purchases 2 pens, 1 bag, and 2 instrument boxes and pays ₹29, while Ankur purchases 2 pens, 2 bags, and 2 instrument boxes and pays ₹44.

Read the above information and answer the following questions:

i)Find the cost of one pen.?

ii) What are the cost of one pen and one bag?

iii) What is the cost of one pen & one instrument box?

iv) What is the cost of one bag & one instrument box?

v) Find the cost of one pen, one bag, and one instrument box.

6) Once a mathematics teacher drew a triangle ABC on the blackboard. Now he asked Jose," If I increase AB by 11 cm and decrease the side BC by 11 cm, then what type of triangle it would be?"
Jose said, "It will become an equilateral triangle."

Again teacher asked Suraj," If I multiply the side AB by 4 then what will be the relation of this with side AC?"

Suraj said it will be 10 cm more than the three times AC**.**

Find the sides of the triangle using the matrix method and answer the following questions:

i)What is the length of the smallest side?

ii) What is the length of the largest side?

iii) What is the perimeter of the triangle?

iv) What is the side of the equilateral triangle formed?

v) What is the order of the matrix formed?

9) Let A = {1, 2, 3, ..., 9} and R be the relation in AXA defined by

(a, b) R (c, d) if:

a + d = b + c for (a, b), (c, d) in AxA Prove that R is an equivalence relation. Also, obtain the equivalence class {(2, 5)}.

10) . Evaluate $\tan^{-1}[2\cos\{2\sin^{-1}(1/2)\}]$

PHYSICAL EDUCATION

1. Make a Scrap file of your game.

PHYSICS

TASK A

Write following experiments in your practical files **(exactly as instructed)**

1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current.

2. To find resistance of a given wire / standard resistor using metre bridge.

3. To verify the laws of combination (series) of resistances using a metre bridge

4. Frequency of AC mains

TASK B: Investigatory Project as discussed in class

Objective:

To apply scientific concepts learned in Physics to real-world scenarios by creating a project, working model, or hands-on activity. The work must demonstrate understanding, creativity, and application of Physics principles as per your class.

Important Dates:

- Last Date to Submit Project Name for selection: 10 June 2025 (Share via

https://docs.google.com/forms/d/e/1FAIpQLSctfqMlv3OnTlJnlKDfcsETmZ6vILypJc_28lddnEGK3MI0iQ/viewform?usp=sharing&ouid=111518018179510373975)

- Approval/Rejection of Topic: By 10 June 2025

- Final Submission: 7 July 2025

Instructions:

1. Investigatory Project (experiment-based)

2. Your submission must include a handwritten report of at 10-15 pages, neatly presented.

3. You will receive feedback/approval on your chosen topic by 10 June 2025. Start working only after approval.

4. The report should follow the structure given below.

Report Format:

Your handwritten report should include the following:

1. Title – Clear and concise

2. Index – Table of contents

3. Objective / Problem / Hypothesis

  - Define what you are investigating or building.

  - Mention the Physics principle involved.

4. Materials Required – List of all tools/items used

5. Procedure – Step-by-step explanation

6. Observations – Table/chart of results (if applicable)

7. Conclusion – What did you learn/confirm? Any calculations?

8. Bibliography – Any sources referred

Suggested Investigatory Projects or you can choose any topic of your choice after approval only.

1. To study various factors on which the internal resistance/EMF of a cell depends.

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.

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.

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.

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.

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.

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.

8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.

If you need help choosing a topic or developing your project idea, feel free to ask!

TASK C

B 1. Prepare a formula sheets of lesson1, 2,3.

B2. Complete NCERT exercises l,2 and 3 in numerical note book.

INFORMATICS PRACTICES

EMPL table is given below. On the basis of the given table attempt the queries given below:

```
mysql> select * from empl;
+--------+----------+-----------+------+------------+---------+---------+--------+
| empno  | ename    | job       | mgr  | hiredate   | sal     | comm    | deptno |
+--------+----------+-----------+------+------------+---------+---------+--------+
|   8369 | SMITH    | CLERK     | 8902 | 1990-12-18 |  800.00 |    NULL |     20 |
|   8499 | ANYA     | SALESMAN  | 8698 | 1991-02-20 | 1600.00 |  300.00 |     30 |
|   8521 | SETH     | SALESMAN  | 8698 | 1991-02-22 | 1250.00 |  500.00 |     30 |
|   8566 | MAHADEVAN| MANAGER   | 8839 | 1991-04-02 | 2985.00 |    NULL |     20 |
|   8654 | MOMIN    | SALESMAN  | 8698 | 1991-09-28 | 1250.00 | 1400.00 |     30 |
|   8698 | BINA     | MANAGER   | 8839 | 1991-05-01 | 2850.00 |    NULL |     30 |
|   8882 | SHIAVNSH | MANAGER   | 8839 | 1991-06-09 | 2450.00 |    NULL |     10 |
|   8888 | SCOTT    | ANALYST   | 8566 | 1992-12-09 | 3000.00 |    NULL |     20 |
|   8839 | AMIR     | PRESIDENT | NULL | 1991-11-18 | 5000.00 |    NULL |     10 |
|   8844 | KULDEEP  | SALESMAN  | 8698 | 1991-09-08 | 1500.00 |    0.00 |     30 |
|   8886 | ANOOP    | CLERK     | 8888 | 1993-01-12 | 1100.00 |    NULL |     20 |
|   8900 | JATIN    | CLERK     | 8698 | 1991-12-03 |  950.00 |    NULL |     30 |
|   8902 | FAKIR    | ANALYST   | 8566 | 1991-12-03 | 3000.00 |    NULL |     20 |
|   8934 | MITA     | CLERK     | 8882 | 1992-01-23 | 1300.00 |    NULL |     10 |
+--------+----------+-----------+------+------------+---------+---------+--------+
14 rows in set (0.03 sec)
```

1. Display the structure of emp table.
2. Create table dept and emp with Primary key and foreign key.
3. Insert values into the above created tables.
4. Display the details of all the employees of emp table.
5. Display the names, salaries, and hire dates of the employees.
6. Display employees' sal + comm as total salary along with their names.
7. Display the annual salaries of the employees considering month-wise salary is given.
8. Write a query to display unique jobs in the employee table.
9. Display name and sal as salary for all the employees.
10. Write a query to list the employees' names and increase their salary by 15%.
11. Find the employee name, salary who is working in dept no 20.
12. Display the details of 'Smith'.
13. List the Empno, Ename, Sal of all emps working for Mgr 7369.
14. Display the employees whose salary is not NULL.
15. Display the total salary of the employees i.e. sal + comm. Whose comm. Is not null, in descending order.
16. Write a query to display details of employees who are not getting commission.

17. Find the name, job, salary of the employee who is not a manager (using NOT & <> operator).
18. Write a query to display the employees getting salary between 2000 and 4000 (using BETWEEN & AND operator).
19. List the employees who are either 'CLERK' or 'ANALYST'.
20. Write a query to display the employees NOT getting salary between 2000 and 4000 (using BETWEEN & AND operator).
21. Find the employee who are managers, salesman & clerk (using OR & IN operator).
22. Find employee names who are working in dept no 20 & 40 (Using OR & IN operator).
23. Find ename who are managers and getting salary more than 2000.
24. List the employees whose annual sal ranges from 22000 and 45000.
25. Find ename who are managers and getting salary more than 2000.
26. Write a query to display the name of an employee whose name contains "M" as the first and "L" as the third alphabet.
27. List the 5 character names starting with 'S' and ending with 'H'.
28. Display the names of the employees with their jobs.
29. Display the names of the employees in small letters.
30. Trim the first two alphabets of the names of the employees.
31. Find the total number of alphabets in employees' names.
32. List the employees whose name is starting with a vowel.
33. Find out the total salary of all the employees.
34. List the employees whose Sal is a four-digit number ending with Zero.
35. Find total salary for those who are not managers.
36. Find out the total number of employees who are working in dept no 10.
37. Find out the minimum salary of dept no 20.
38. Find out the total average of all the employees who are working in dept no 30.
39. Find deptno, total salary of those dept where there is no salesman and total salary of the dept is more than 8500.
40. Find avg salary for those employees whose job = 'clerk'.
41. List the employees who joined before 1981.
42. Display the month in which the employee joined.
43. Count number of employees in each department.
44. Display total salary department-wise.
45. Display the employees under the same manager.
46. Display the sum salary of the employees as per their jobs.
47. Show employee names and their department names (INNER JOIN).
48. List all employees with their department names (LEFT OUTER JOIN).
49. List all departments and employees working in them (RIGHT OUTER JOIN).
50. Show names of employees and their department location if salary is more than 3000.
51. Display the department names along with the employee names.
52. Increase the salary of employees having a salary less than 3000 by 1850.
53. Calculate the square & square root of 27.
54. Calculate 2 raise to the power 8.
55. Rename the column sal to salary.

ECONOMICS (030)

Economics Holiday Homework is designed to provide the students opportunities to acquire analytical skills to observe and understand the economic realities.

The purpose of this homework is to provide an in depth knowledge in the field of economics and deepening understanding of core concepts.

PART A

Attempt the following questions in economics notebook.

1. What is the meaning of Quantitative Restrictions?

2. Do you think outsourcing is good for India? Why are developed countries opposing it?

3. Industrial sector has performed poorly in the reform period. Why?

4. Explain the important features of international trade during the British rule.

5. What objectives did the British intend to achieve through their policies of infrastructure development in India?

Part B
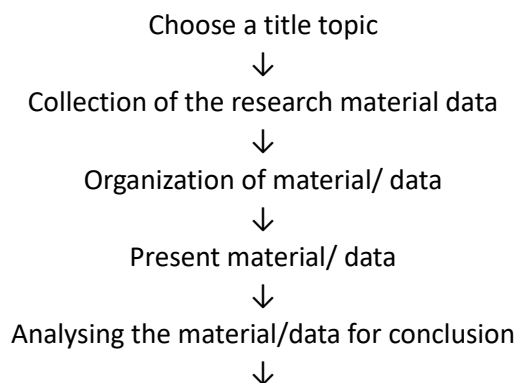
Complete project work according to CBSE guidelines

The objectives of the project work are to enable learners to:

•probe deeper into theoretical concepts learnt in class

 •analyse and evaluate real world economic scenarios using theoretical constructs and arguments

•demonstrate the learning of economic theory

•follow up aspects of economics in which learners have interest

•develop the communication skills to argue logically

The expectations of the project work are that:

•learners will complete only ONE project in each academic session Project should be of 3,500-4,000 words (excluding diagrams & graphs), hand-written.

Scope of the project: Learners may work upon the following lines as a suggested flow chart

Choose a title topic
↓
Collection of the research material data
↓
Organization of material/ data
↓
Present material/ data
↓
Analysing the material/data for conclusion
↓

Draw the relevant conclusion
↓
Presentation of the Project Work

Expected Checklist:

•Introduction of topic/title
•Identifying the causes, consequences and/or remedies
•Various stakeholders and effect on each of them
•Advantages and disadvantages of situations or issues identified
•Short-term and long-term implications of economic strategies suggested in the course of research
•Validity, reliability, appropriateness and relevance of data used for research work and for
 presentation in the project file
•Presentation and writing that is succinct and coherent in project file
•Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

Suggestive List of Projects topics:

1. Micro and Small Scale Industries
2. Food Supply Channel in India
3. Contemporary Employment situation in India
4. Disinvestment policy of the Government
5. Goods and Services Tax Act and its Impact on GDP
6. Health Expenditure (of any state)
7. Human Development Index
8. Inclusive Growth Strategy
9. Self-help group
10.Trends in Credit availability in India
11.Monetary policy committee and its functions
12. Role of RBI in Control of Credit
13.Government Budget & its Components
 14.Trends in budgetary condition of India
15. Exchange Rate determination – Methods and Techniques
16.Currency War – reasons and repercussions
17. Livestock – Backbone of Rural India
18. Alternate fuel – types and importance
19.Sarwa Siksha Abhiyan – Cost Ratio Benefits

20. Golden Quadrilateral- Cost ratio benefit
21. Minimum Support Prices
22. Relation between Stock Price Index and Economic Health of Nation
23. Waste Management in India – Need of the hour
24. Minimum Wage Rate – approach and Application
25. Digital India- Step towards the future
26. Rain Water Harvesting – a solution to water crisis
27. Vertical Farming – an alternate way
28. Silk Route- Revival of the past
29. Make in India – The way ahead
30. Bumper Production- Boon or Bane for the farmer
31. Rise of Concrete Jungle- Trend Analysis
32. Organic Farming – Back to the Nature
33. Any other newspaper article and its evaluation on basis of economic principles
34. Any other topic

Following essentials are required to be fulfilled for its preparation and submission.

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence

Cover page should include:
- Title of the Project, student information, school and year.
- List of contents
- Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
- Introduction.
- Topic with suitable heading.
- Planning and activities done during the project, if any.
- Observations and findings of the visit.
- Conclusions (summarized suggestions or findings, future scope of study).
- Photographs (if any).
- Appendix
- Teacher's observation, Signatures of the teachers.