DAV PUBLIC SCHOOL SECL BISHRAMPUR

Diwali Vacation Home Work

CLASS : XI 2026-27

English

Write a speech to be delivered during morning assembly on the topic " social media :boon or curse"

Hindi

1. निम्नलिखित विषयों पर रचनात्मक लेख लिखिए।

I. मोबाइल में कैद जीवन

II. स्वच्छता**:** आज की आवश्यकता

2. यूनिट टेस्ट **3** के पाठ्यक्रम की पूरी तैयारी।

PHYSICS

1. Preparation for rotational motion and frame 10 mcq and 5 assertion reason from ncert intext .

CHEMISTRY

1-Prepare the Chapters of Unit Test

2.Complete theNCERT

Exercise of the Chapters taught

MATHEMATICS

SOLVE THESE QUESTIONS IN ASSIGNMENT COPY

1.Find the sum of the series upto n terms 5+55+555+5555+.....

2.Draw the graph of the function $y = sinx$ and $y = \sin(x + \frac{\pi}{4})$ on same graph.

3.Draw the Graph of the function $f(x) = [x]$ and $f(x) = |x|$

4.Solve the inequality and show the solution on number line $\frac{x}{2} \geq \frac{5x-2}{3} - \frac{7x-3}{5}$

5.The slope of a line is double of the slope of another line. If tangent of the angle between them is 1/3, find the slopes of the other line.

6.Find $(a+b)^4 - (a-b)^4$. Hence evaluate $(\sqrt{3}+\sqrt{2})^4 - (\sqrt{3}-\sqrt{2})^4$.

7.Find the value of $\tan\frac{\pi}{8}$

8.If $\frac{a^n+b^n}{a^{n-1}+b^{n-1}}$ is the A.M. between a and b .find the value of n.

9.The sum of n terms of two arithmetic progressions are in the ratio 5n + 4 : 9n + 6. Find the ratio of their 18^{th} terms.

10. Assuming the straight lines work as a plane mirror for a point , find the image of the point (1,2) in the line $x - 3y + 4 = 0$

11. If $\tan x = \frac{3}{4}$, $\pi < x < \frac{3\pi}{2}$, find the values of $\sin\frac{x}{2}$, $\cos\frac{x}{2}$ and $\tan\frac{x}{2}$.

12.CASE STUDY I : Five students Ajay, Shyam, Rahul, Ravi and Rashid are sitting in a play ground in a line. Find

(i) Total number of ways of sitting arrangement of five students?

(ii) Total number of sitting arrangement if Ajay and Ravi sit together?

(iii) Total number of arrangement Ravi and Rahul sitting at extreme position?

13.CASE STUDY II : In a survey of 100 students,the number of students studying the various languages were found to be: English only 18, English but not Hindi 23, English and German 8, English 26, German 48, German and Hind is 8, no language 24.Find the number of students who were studying

(i) Hindi (ii) English and Hindi (iii) English, Hindi and German.

BIOLOGY

1. Solve the NCERT exercise of chapter “Photosynthesis in higher plants”.

2. Learn difference between:

- Cyclic and Non-Cyclic Photophosphorylation.
- C_3 and C_4 cycle.

3. Complete experiments 05 and 06 in your lab manual.

ACCOUNTANCY

1. solve all the exercises of accounts from incomplete records

BUSINESS STUDIES

1. Write case based questions, MCQ’s of sources of business finance.

ECONOMICS

CHAPTER 8- Measure of correlation

Solve numerical questions by all methods in statistics copy.

HISTORY

Revise and remember the question - answer of chapter 4 - The three order for the UT-3.

GEOGRAPHY

Learn all MCQS ,SHORT/LONG ANSWERS BASED QUESTIONS OF CHAPTER

“INTERIROR OF THE EARTH” AND “COMPOSITION AND STRUCTURES OF ATMOSPHERE”

FOR UPCOMMING UNIT TEST

POLITICAL SCIENCE

1) Learn and revise the complete Unit Test 3 syllabus during the holidays.

2),Write all the important questions from the chapter Right (Political Theory) in your Political Science notebook.

IP

Section A: Theory Questions

1. What is MySQL? Explain the difference between DDL and DML commands with two examples of each.

2. Differentiate between the CHAR and VARCHAR data types in MySQL. Give one suitable example of each.

3. Explain the purpose of the following MySQL commands with syntax:
(a) CREATE TABLE
(b) ALTER TABLE
(c) UPDATE
(d) DELETE

4. What are primary keys and constraints in MySQL? Explain the PRIMARY KEY, NOT NULL, and UNIQUE constraints.

5. Explain the use of WHERE, ORDER BY, and DISTINCT clauses in SQL with one example of each.

Section B: Practical MySQL Questions

Use the following table for Questions 6–10.

RollNo	Name	Stream	Marks	City
101	Amit	Science	85	Raipur
102	Neha	Commerce	92	Bilaspur
103	Ravi	Science	76	Raipur
104	Pooja	Humanities	88	Durg
105	Karan	Commerce	67	Bilaspur

6. Write SQL commands to:
(a) Create a database named SCHOOL.
(b) Select the database.
(c) Create the STUDENT table with appropriate data types and make RollNo the primary key.

7. Write an SQL query to display the names and marks of students who scored more than 80 marks.

8. Write SQL queries to:
(a) Display all student records in descending order of marks.
(b) Display the distinct cities represented in the table.

9. Write SQL commands to:
(a) Change Ravi's marks to 82.
(b) Add a new column named Age of type INT to the STUDENT table.

10. Write SQL queries to:
(a) Display the number of students in the table.
(b) Display the highest marks obtained.
(c) Display the average marks of all students.

PE