

SUMMER VACATION



JYANTI PRASAD DAV PUBLIC SCHOOL
GARHI JHANJHARA ROAD, GANOUR
(UNDER THE DIRECT CONTROL OF DAV CMC, NEW DELHI)



HOLIDAYS' HOMEWORK

SESSION 2024-25

CLASS XII Arts

FOR ANY QUERY CONTACT: **0130-2450641**

A fully English medium and the best school in area for
all round development of students.

TOGETHER WE CAN

FROM JUNE 01, 2024 TO JUNE 30, 2024

Dear parents

We wish you a very happy and fruitful time with your children. Summer vacation is the most awaited time for the students as they want to play, enjoy and relish with their friends, neighbours and relatives. This is a time for them to stay away from the mundane schedule of daily life. They want to enjoy it in leaps and bounds. But we request you to keep their energy channelised. You should be a part of their enjoyment but time and again a check is required. Now it's your responsibility to make them stay connected with their studies along with fun and frolic & encourage them to do their homework in a neat and tidy manner.

Here are some of the suggested activities that you can do as a family:

- 1. Prepare a well-being plan for self.*
- 2. Stick to routines or starting new ones.*
- 3. Get up and go to sleep at regular times.*
- 4. Help them explore new hobbies and interest.*
- 5. Do karaoke, read, solve puzzles, play board games, etc.*
- 6. Keep a gratitude journal. Writing down three things you are grateful for every day. Congratulate yourself and others on having a "MEGA DAY".*
- 7. Take out time for Reading, Music, Dance, Singing, and Laughing.*
- 8. Set Challenges- Encourage each other to take up new activities and complete them.*
- 9. Be Creative with Space- Find a corner in the house and allow yourself and your children to decorate it.*
- 10. Involve your children in household activities also.*
- 11 Learn foreign languages through online courses available.*
- 12. Take them for outing to place of their interest & let them explore the world.*
- 13. Communicate with your children and let them know you fully.*

As parents you are requested to keep a watchful eye on your children and stop them from engaging in :

- 1. Excessive use of mobile phones.*
- 2. Playing online games*
- 3. Spending a lot of time alone away from family members.*

Be Safe



We're doing our homework to make sure we're prepared. - Gary Gait

Thomas A. Edison says "Genius is one percent inspiration and ninety-nine percent perspiration. As a result, a genius is often a talented person who has simply done all of his homework."

General Instructions:

- 1. Do your Homework in a separate 3 in 1 notebook (classes 1 and 2) & cover it properly.*
- 2. Do your Homework in separate 10 rs/- notebooks subject wise (classes 3 to 12) & cover it properly.*
- 3. Mention your details on your holiday's homework.*
- 4. Start your homework from very beginning of holidays to avoid stress and ensure high quality work as it has been assigned.*
- 5. Dedicate a specific time each day on your homework.*
- 6. Choose a dedicated area that is free from distraction to focus on your work.*
- 7. Present your homework in a neat and logical manner.*
- 8. Use clear handwriting, proper formatting and consistent spacing.*

Note:

- The best holiday homework of each class will be awarded.*
- It is a part of internal assessment for the final examination.*

WARM REGARDS
PRINCIPAL

ENGLISH

1 Read the following lessons carefully and make a question bank containing at least a hundred questions to be used in the 'Interclass Quiz Competition'.

Flamingo: Lesson-1 The Last Lesson

Lesson -2 Lost Spring

Poem -1 My Mother At Sixty Six

Vistas: Lesson -1 The Third Level

2. Write a notice to be put up on your school notice board for the students of class 12th informing about the Online Classes during Summer Vacation. Invent all the details.

3. You have planned to celebrate the **Golden Jubilee** of your grandparents. Draft an invitation for the same to be sent to your family, friends and relatives. Invent all the details.

4. Make a project on the topics given below according to the roll numbers: (At Least 18-20 pages)

Legal Literacy (1-5)

Corruption and its Consequences:(1-10)

Role of Social Media (6-15)

Juvenile Delinquency (11-20)

Care of Elderly (11-25)

Girls Right V/s Boys' Right (21-30)

Indian Mythology and Cultural heritage (26-35)

The Trolley Problem: (31-40)

5. Prepare a speech on above mentioned topics for speech competition to be held on July 5, 2024 (tentative)

6. **Anthology* Creation:** Each and every student of the class will write a short story or poem (self created) based on the theme of 'School, Teachers and the Students'. These will be bound together in the form of a Spiral Book. The best entry will be awarded.

Anthology is a book that contains pieces of writing like short stories or poems, often on the same subject by different writers

Note: 1. Question no. 1 & 2 are to be done in a holiday homework notebook,

2. Question number 3 is to be done on the Drawing sheet.

3. Question number 4 & 6 are to be done on the Assignment sheets.

HINDI

ग्रीष्मावकाश कार्य

कक्षा बारहवीं

विषय हिंदी

निम्नलिखित प्रश्नों के उत्तर लिखिए

1. संसार किन को महत्व देता है कई को वह महत्व क्यों नहीं दिया जाता है?
2. कवि ने स्नेहा को सुर क्यों कहा है संसार के प्रति उसके नकारात्मक दृष्टिकोण का क्या कारण है?
3. जीवन रूपी मार्ग पर अग्रसर होते हुए कौन सी बात पथिक के हृदय में व्याकुलता को भर देती है?
4. काले मेघा पानी दे पाठ के आधार पर इंद्रसेन के कार्यों का वर्णन कीजिए।
5. हर छठ के अवसर पर लेखक क्या करता था?
6. मनी बैग का अर्थ स्पष्ट करते हुए बताइए कि लेखक के मित्र द्वारा मनी बैग फैला देना उसकी किस मानसिकता का परिचायक है?
7. लेखक ने कैसे बाजार को मानवता के लिए विडंबना माना है?
8. "भक्ति का दुर्भाग्य भी उससे कम हटती नहीं था" लेखिका ने भक्ति के संबंध में यह कथन क्यों कहा स्पष्ट कीजिए।
9. 'लड़कियों की घटती जनसंख्या' विषय पर एक आलेख लिखिए।
10. अंतरराष्ट्रीय जगत में भारत का बढ़ता कब विषय पर एक रचनात्मक लेख लिखिए।
11. परियोजना कार्य - अपने नाम से एक हिंदी पत्रिका तैयार कीजिए।

POLITICAL SCIENCE

A) Complete Holiday homework worksheet based on competency of Ch-1 and 2 separately on A-4 size sheet (Worksheet attached at the end of page)

B) Political Science Project- Prepare a project according to CBSE guidelines. Topics as discussed in the classroom.

Some suggested topics are:

- 1. Nation building*
- 2. New centres of Power*
- 3. India's relations with USA or USSR,*
- 4. United Nations.*
- 5. Contemporary South Asia*

INSTRUCTIONS ARE AS FOLLOWS:

- 1. Project must be handwritten. Print outs will not be accepted.*
- 2. Project to be done individually.*
- 3. Page Limit- 25-30 pages.*
- 4. Pictures must be incorporated. (On the left hand side)*
- 5. Assessment will be based on creativity, presentation and research work conducted by the student.*

C) Prepare a poster on 'Emergency - black day for Indian Democracy'.

ASSIGNMENT -1

Challenges of Nation Building

1. Read the passage given below carefully and answer the following questions:

The interim government took a firm stance against the possible division of India into smaller principalities of different sizes. The Muslim League opposed the Indian National Congress and took the view that the States should be free to adopt any course they liked. Sardar Patel, India's Deputy Prime Minister and the Home Minister during the crucial period, immediately after Independence, played a historic role in negotiating with the rulers of Princely States in bringing most of them into the Indian Union.

Questions

A) Which government has been referred to as the interim government?

B) Why did the Muslim League oppose the Indian National Congress?

C) What makes the role of Sardar Patel a historic one? Explain.

2. What forced the Union Government of India to appoint the State Reorganisation Commission in 1953? Was it necessary? Mention its two main recommendations. Name any four new states formed after 1956.

3. How did the state of Hyderabad become a part of the Indian Union after partition?

4. What are the reasons being used by Nehru for keeping India secular? Do you think these reasons were only ethical and sentimental? Or were there some prudential reasons as well?

5. What was the huge obstacle in nation building at the time of India's independence?

6. What were the circumstances when India attained its independence?

7. Which states were created on the basis of separate regional culture or complaints of regional imbalance in development?

ASSIGNMENT -2

End of bipolarity

1. The value of the Ruble declined dramatically. The rate of inflation was so high that people lost all their savings. The collective farm system disintegrated leaving people without food security, and the government started to import food. The old trading structure broke down with no alternative in its place. The old system of social welfare was systematically destroyed. The withdrawal of government subsidies pushed large sections of the people into poverty.

A) What is meant by subsidy?

B) How did the disintegration of the collective farm system lead to the loss of food security?

C) This passage is associated to which country? Why did the government start importing food?

2. Describe any four consequences of the disintegration of Soviet Union.

3. Which two republics of the USSR have had violent secessionist movements at the time of its disintegration?

4. Discuss the economic relationship between India and the Soviet Union during the Cold War era.
5. Describe the factors that make most of the former Soviet Republics prone to conflicts and threats.
6. List any four differences between the socialism and communism.

GEOGRAPHY

(i) Paste 10 maps each of India and World in Scrap Book

- Mark 15 countries of each continent of world map.
- Mark states and capitals with UT's on Political map of India.

(ii) Prepare a Project report on:-

1. Distribution of population in the world.
2. Agricultural practices in world.

(iii) learn full syllabus done in class till now.

MATHEMATICS

1. Make a project on the topic "FUNCTION"

- Function
- Types of function
- Existence of inverse of a function(by drawing graph)
- Inverse of a function.

2. Do lab-manual activities in the activity file. (pdf share in maths group)

3. Solve the given assignments in the fair notebook:-

ASSIGNMENT -1

Q1. Show that a function $f: \mathbb{R}$ to \mathbb{R} defined by $f(x) = \frac{2x}{1-x^2}$ is neither one-one nor onto.

Further, find set A so that given function $f: \mathbb{R}$ to A becomes an onto function.

Q2. A relation \mathcal{R} is defined on $\mathbb{N} \times \mathbb{N}$ (where \mathbb{N} is set of natural numbers) as

$(a, b) \mathcal{R} (c, d) \Leftrightarrow a-c = b-d.$

Show that \mathcal{R} is an equivalence relation.

Q3. . A relation \mathcal{R} is defined on $\mathcal{N} \times \mathcal{N}$ (where \mathcal{N} is set of natural numbers) as

$$(a, b) \mathcal{R} (c, d) \Leftrightarrow ad(b+c) = bc(a+d).$$

Show that \mathcal{R} is an equivalence relation.

Q4. Let $f: \mathcal{R} \rightarrow \left(-\frac{4}{3}\right)$ be a function defined as $f(x) = \frac{4x}{3x+4}$. Show that f is one-one function.

Also, check whether f is onto or not?

Q5. Find domain of $y = \sin^{-1}(x^2 - 4)$. Also, find its range.

Q6. Evaluate: $\cos^{-1}[\cos(-\frac{7\pi}{3})]$.

Q7. Find the value of $\tan^{-1}(-\frac{1}{\sqrt{3}}) + \cot^{-1}(\frac{1}{\sqrt{3}}) + \tan^{-1}[\sin(-\frac{\pi}{2})]$.

Q8. Let $\mathcal{A} = \{3, 5\}$. Then number of reflexive relations on \mathcal{A} is

- (a) 2 (b) 4 (c) 0 (d) 8

ASSIGNMENT -2

Q1. Find the inverse of the matrix $\mathcal{A} = \begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & -3 \\ 3 & -2 & 4 \end{bmatrix}$. Using the inverse, solve the system

of equations:

$$x - y + 2z = 1; \quad 2y - 3z = 1; \quad 3x - 2y + 4z = 3.$$

Q2. If \mathcal{A} is a square matrix and $\mathcal{A}^2 = \mathcal{A}$, then $(\mathcal{I} + \mathcal{A})^2 - 3\mathcal{A} = ?$

Q3. If $\mathcal{A} = \begin{bmatrix} 5 & 0 & 4 \\ 2 & 3 & 2 \\ 1 & 2 & 1 \end{bmatrix}$ & $\mathcal{B}^{-1} = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$, find $(\mathcal{A}\mathcal{B})^{-1}$. Also, find $|(\mathcal{A}\mathcal{B})^{-1}|$.

Q4. Find the values x & y :

$$(a) \begin{vmatrix} 3 & y \\ x & 1 \end{vmatrix} = \begin{vmatrix} 3 & 2 \\ 4 & 1 \end{vmatrix} \quad (b) \begin{vmatrix} 2x & 5 \\ 8 & x \end{vmatrix} = \begin{vmatrix} 6 & 5 \\ 8 & 3 \end{vmatrix} \quad (c) \begin{vmatrix} x+1 & x-1 \\ x-3 & x+2 \end{vmatrix} =$$

$$\begin{vmatrix} 4 & -1 \\ 1 & 3 \end{vmatrix}$$

Q5. Express as sum of symmetric and skew-symmetric matrix;

$$(a) \begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$$

$$(b) \begin{bmatrix} 2 & -2 & -4 \\ -1 & 3 & 4 \\ 1 & -2 & -3 \end{bmatrix}$$

Q6. Find the equation of line joining $A(1,3), B(0,0)$ using determinants and find k if $D(K,0)$ is a point such that area of triangle ABD is 3 square units.

Q7. Show that points $A(a,b+c), B(b,a+b), C(c,a+b)$ are collinear.

Q8. Using co-factors of elements of third row, evaluate determinant $= \begin{bmatrix} 1 & x & yz \\ 1 & y & zx \\ 1 & z & xy \end{bmatrix}$.

IP

1. The `count()` function in MySQL is an example of _____.

2. Write the output of the following SQL command

`select truncate(45.87,-1);`

3. _____ is a network device used for modulation and demodulation of signals.

4. Write the SQL command that will display all database's names.

5. The _____ command can be used to make changes in the columns of a table in SQL.

6. Consider the table `STUDENT` given below:

RollNo	Name	Class	DOB	Gender	City	Marks
1	Anand	XI	6/6/97	M	Agra	430
2	Chetan	XII	7/5/94	M	Mumbai	460
3	Geet	XI	6/5/97	F	Agra	470
4	Preeti	XII	8/8/95	F	Mumbai	492
5	Saniyal	XII	8/10/95	M	Delhi	360

6	Maakhiy	XI	12/12/9	F	Dubai	256
7	Neha	X	8/12/95	F	Moscow	324

(i) Write the command to display the name of the oldest student?

(ii) State the command to display the average marks scored by students of each gender who are in class XII?

(iii) Kavita has given the following command to obtain the lowest marks:-

Select max(marks) from student where group by class;

but she is not getting the desired result. Help her by writing the correct command.

(iv) Write the output of following command:-

Select RollNo, Marks from student order by DOB;

(v) State the output of following command :-

Select round(456.34,1) from student where class = 'XI';

7. Consider the following DataFrame **df** and write python command for any four questions from (i)-(v)

<u>Color</u>	<u>Count</u>	<u>Price</u>
Apple Red	24	20
Apple Green	17	19
Pear Red	22	18
Pear Green	20	24
Lime Green	20	18

(i) Find all the rows with the label "Apple". Extract all columns.

(ii) List fruits with count more than 17.

(iii) List single True or False to signify if all prices are more than 10 or not.

(iv) List 2nd, 3rd and 4th rows.

(v) *List only columns Color and Price using loc.*

8. *Consider the decimal number x with value 5236.5478. Write commands in SQL to:-*

- i. round it off to a whole number*
- ii. round it to 3 places **before** the decimal.*

9. *John writes the following commands with respect to a table employee having fields, empno, name, department, commission.*

Command1 : Select count() from employee;*

Command2: Select count(commission) from employee;

He gets the output as 4 for the first command but gets an output 3 for the second command.

Explain the output with justification.

10. *Consider the following SQL string: "Coordinator"*

Write command to display :-

- a. ORD*
- b. the position of the substring 'nat' in the given string.*

11. *Consider the same string : "Coordinator"*

Write command to display :-

- a. the last 4 letters of the string*
- b. number of character in the string*

12. *A relation "CAR" is given below :*

<i>V_no</i>	<i>Type</i>	<i>Company</i>	<i>Price</i>	<i>Qty</i>
<i>AW125</i>	<i>Wagon</i>	<i>Maruti</i>	<i>250000</i>	<i>25</i>
<i>J0083</i>	<i>Jeep</i>	<i>Mahindra</i>	<i>4000000</i>	<i>15</i>

S9090	SUV	Mitsubishi	2500000	18
M0892	Mini van	Datsun	1500000	26
W9760	SUV	Maruti	2500000	18
R2409	Mini van	Mahindra	350000	15

Write SQL commands to:

- a. Display the maximum price of each type of vehicle having quantity less than 30.
- b. Count the type of vehicles manufactured by each company.
- c. Display the average price of all the types of vehicles.

13. Write a program in Python Pandas to create the following DataFrame Student from a Dictionary:

RNO	Name	Term1	Term2
1	Ravi Kishan	90	80
2	Geeta Goel	65	45
3	Shiv Kumar	70	90
4	Shyam Garg	80	76

Perform the following operations on the DataFrame :

- 1) Add the Marks of both terms of the student and assign to column "Total".
- 2) Display the lowest score in both Term1 and Term2 of the DataFrame.
- 3) Display the Dataframe.

14. Write the SQL functions which will perform the following operations:

- i) To display the name of the month of the current date .

- ii) To remove spaces from the beginning and end of a string, “ Panorama ”.
- iii) To display the name of the day eg, Friday or Sunday from your date of birth, dob.
- iv) To display the starting position of your first name(fname) from your whole name(name).
- v) To compute the remainder of division between two numbers, n1 and n2

15. Consider the following table “GYM” :-

ICODE	INAME	PRICE	OPENING DATE	BRANDNAME
G1	Power Fit Exercise	20000	29-10-2019	Power Gynea
G2	Aqufit Hand Grip	1800	13-03-2018	Reliable
G3	Cyber Bike	14000	18-03-2017	Ecobike
G4	Protoner Extreme Gym	30000	31-12-2018	Coscore
G5	Message Belt	5000	23-01-2010	Message Expert

Write SQL queries using SQL functions to perform the following operations:-

- Display brand name and price after rounding off to zero decimal places.
- Display the seven characters from item name starting from fifth character.
- Display the position of occurrence of the string “ik” in item names.
- Display the month name for the opening date of Gym in capital letters.
- Display the name of the weekday for the opening date of Gym in small letters.

ECONOMICS

- What is entrepreneurship?
- Define great depression with example.

3. *What are the different ways in which resources can be allocated and what are their respective advantages and disadvantages?*
4. *What must be added to domestic factor income to obtain national income?*
5. *Explain the meaning of non-market activities.*
6. *Explain the main steps involved in measuring national income through the product method.*
7. *Give the meaning of autonomous consumption.*
8. *What is propensity to consume?*
9. *What is propensity to consume?*
10. *Explain the functions of the Central Bank of India.*

Note:

- *Prepare a project on banking.*
- *Prepare a mind map on circular flow of income.*

PHYSICAL EDUCATION

1. *Revise unit 1, 2 and 3*
2. *Prepare notes of unit 1, 2, and 3*
3. *Prepare practical file :-*

Practical File shall include:

- *Practical-1: Fitness tests administration. (SAI Khelo India Test)*
- *Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.*
- *Practical-3: Any one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also, mention its Rules, Terminologies & Skills.*

MUSIC

Prepare practical File

1 Tanpura

2 Taal Rupak

3. *Dhamar Taal*
4. *Taal Jhaptaal*
5. *Raag bhairv*
6. *Raag Bageshree*
7. *Raag Malkouns*
8. *Bade Guhlan Ali Khan*
9. *Fiyaz Khan*
10. *Pandit Krishan Rao Shanker*

HISTORY

1. *Choose any two primary source from a historical period and analyse them. Discuss their significance, context and what they reveal about the period.*
2. *Research a Historical monuments and create a report or presentation on its historical significance, contradiction and cultural impact.*
3. *Create an interactive map that traces significant and location of Indus valley civilization.*