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Class XI – English Holiday Homework

1. Inspired by the play *Mother's Day* by J. B. Priestley, write a short story in 150–200 words in which a family member who is often taken for granted decides to stand up for themselves. Show how this changes the family's behaviour and relationships.
2. Write about the importance of respect, appreciation and equal responsibilities within a family, with reference to *Mother's Day*. Suggest five practical ways in which family members can share responsibilities and make one another feel valued.

Instruction: Complete both tasks in your English classwork copy.

दुर्गा पूजा अवकाश गृह कार्य

कक्षा -11

विषय- हिंदी

रचनात्मक गतिविधि

क) जामुन के पेड़ का चित्र बनाकर उसके नीचे कहानी का संदेश लिखें ।

ख) सरकारी व्यवस्था की कमियों पर पाँच वाक्य लिखिए।

ग) रचनात्मक लेख लिखें- यदि मैं सरकारी अधिकारी होता

DAV KAPILDEV PUBLIC SCHOOL

KADRU RANCHI

HOLIDAY HOMEWORK

CLASS XI – MATHEMATICS

Chapter 7: Permutations and Combinations

- Q1.** Evaluate the value of n if $P(n, 4) = 20 \times P(n, 2)$.
- Q2.** Find the number of 4-digit numbers that can be formed using the digits 1, 2, 3, 4, 5 if no digit is repeated. How many of these will be even?
- Q3.** How many words, with or without meaning, can be formed using all the letters of the word 'EQUATION' at a time so that vowels and consonants occur together?
- Q4.** A committee of 7 has to be formed from 9 boys and 4 girls. In how many ways can this be done when the committee consists of exactly 3 girls?
- Q5.** Determine the number of 5-card combinations out of a deck of 52 cards if there is exactly one ace in each combination.
- Q6.** Exemplar: If $C(n, r-1) = 36$, $C(n, r) = 84$ and $C(n, r+1) = 126$, find the values of n and r .
- Q7.** Exemplar: Find the number of words that can be formed by taking 4 letters at a time from the letters of the word 'EXAMINATION'.
- Q8.** Exemplar: In how many ways can a team of 3 boys and 3 girls be selected from 5 boys and 4 girls such that a particular boy and a particular girl are always included?
- Q9.** Exemplar: Prove by mathematical principles or algebraic expansion that $C(n, r) + C(n, r-1) = C(n+1, r)$.
- Q10.** Exemplar: Find the number of permutations of the letters of the word 'ASSASSINATION' such that all the N's come together.

Chapter 8: Binomial Theorem

- Q1.** Expand the expression $(x + 1/x)^6$ using Binomial Theorem.
- Q2.** Find the 4th term from the end in the expansion of $(x^{3/2} - 2/x^2)^9$.
- Q3.** Find the coefficient of x^5 in the expansion of product $(1 + 2x)^6 * (1 - x)^7$.
- Q4.** Using Binomial Theorem, prove that $6^n - 5n$ always leaves a remainder of 1 when divided by 25 for all positive integers n .

Q5. If the coefficients of three consecutive terms in the expansion of $(1 + x)^n$ are in the ratio 1 : 7 : 42, find the value of n .

Q6. Exemplar: Find the term independent of x in the expansion of $(3x^2/2 - 1/3x)^9$.

Q7. Exemplar: Find the middle term(s) in the expansion of $(p/x + x/p)^9$.

Q8. Exemplar: If the coefficients of x^7 and x^8 in the expansion of $(a + x/2)^n$ are equal, find the value of n in terms of a .

Q9. Exemplar: Find the coefficient of x^4 in the expansion of $(1 + x + x^2 + x^3)^{11}$.

Q10. Exemplar: If standard expansion terms a , b , c , and d are the 6th, 7th, 8th, and 9th terms respectively in any binomial expansion, prove that $(b^2 - ac)/(c^2 - bd) = 4a/3c$ under standard constraints.

Chapter 9: Sequences and Series

Q1. If the sum of a certain number of terms of the A.P. 25, 22, 19, ... is 116, find its last term.

Q2. The sum of the first three terms of a G.P. is $13/12$ and their product is -1 . Find the common ratio and the terms.

Q3. Find the sum to n terms of the sequence: 7, 77, 777, 7777, ...

Q4. Insert three numbers between 1 and 256 so that the resulting sequence is a Geometric Progression.

Q5. If a , b , c are in A.P.; b , c , d are in G.P. and $1/c$, $1/d$, $1/e$ are in A.P., prove that a , c , e are in G.P.

Q6. Exemplar: If the sum of m terms of an A.P. is equal to the sum of n terms ($m \neq n$), show that the sum of $(m + n)$ terms is zero.

Q7. Exemplar: The ratio of the sum of n terms of two A.P.'s is $(7n + 1) : (4n + 27)$. Find the ratio of their 11th terms.

Q8. Exemplar: If S_1 , S_2 , S_3 are the sum of n , $2n$ and $3n$ terms of a G.P. respectively, prove that $S_1(S_3 - S_2) = (S_2 - S_1)^2$.

Q9. Exemplar: Find the sum of the series: $1 \cdot 2 \cdot 3 + 2 \cdot 3 \cdot 4 + 3 \cdot 4 \cdot 5 + \dots$ up to n terms.

Q10. Exemplar: If a , b , c are in G.P. and x , y are the arithmetic means between a , b and b , c respectively, prove that $a/x + c/y = 2$.

Chapter 10: Straight Lines

Q1. Find the equation of the line passing through the point $(-4, 3)$ with a slope of $1/2$.

Q2. Find the angle between the lines $y - \sqrt{3}x - 5 = 0$ and $\sqrt{3}y - x - 6 = 0$.

Q3. Find the equation of the line perpendicular to the line $x - 2y + 3 = 0$ and passing through the point $(1, -2)$.

Q4. Find the distance of the point $(3, -5)$ from the line $3x - 4y - 26 = 0$.

Q5. Find the equations of the lines parallel to the line $3x - 4y + 2 = 0$ at a distance of 4 units from it.

Q6. Exemplar: If the image of the point $(2, 1)$ with respect to a line mirror is $(5, 2)$, find the equation of the line mirror.

Q7. Exemplar: Find the coordinates of the foot of the perpendicular drawn from the point $(2, 3)$ to the line $3x - 4y + 1 = 0$.

Q8. Exemplar: A line passes through the point (h, k) . If the portion of the line intercepted between the axes is bisected at this point, show that its equation is $x/h + y/k = 2$.

Q9. Exemplar: Find the values of k for which the line $(k-3)x - (4-k^2)y + k^2 - 7k + 6 = 0$ is parallel to the x -axis.

Q10. Exemplar: Prove that the path of a moving point such that its distances from two intersecting lines are equal is always a straight line passing through their point of intersection (angle bisector).

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HOLIDAY HOMEWORK

CLASS XI – APPLIED MATHEMATICS

Chapter 1: Sets

Q1. If $A = \{x : x \text{ is a prime number less than } 20\}$ and $B = \{x : x \text{ is an odd natural number less than } 15\}$, find (i) $A \cup B$, (ii) $A \cap B$, (iii) $A - B$, and (iv) $B - A$.

Q2. In a market survey of 125 consumers, it was found that 80 consumers buy Product A and 68 buy Product B. Find the minimum and maximum possible number of consumers who buy both products.

Q3. Out of 500 students in a school, 240 play cricket, 190 play football, and 170 play hockey. If 50 students play both cricket and football, 40 play football and hockey, 45 play cricket and hockey, and 15 play all three games, find the number of students who do not play any of the three games.

Q4. Prove using properties of sets or Venn diagrams: $A - (B \cup C) = (A - B) \cap (A - C)$.

Q5. Application Question: A financial advisory firm tracks 100 clients. 55 clients invest in mutual funds, 40 invest in stocks, and 30 invest in bonds. 15 invest in mutual funds and stocks, 12 invest in stocks and bonds, and 10 invest in mutual funds and bonds. If 5 clients invest in all three, find the number of clients who invest ONLY in mutual funds.

Chapter 2: Relations

Q1. Let $A = \{1, 2, 3, 4, 5, 6\}$. Define a relation R from A to A by $R = \{(x, y) : y = x + 1\}$. Write down the relation in roster form, and find its domain, co-domain, and range.

Q2. If $A = \{2, 3, 5\}$ and $B = \{4, 6, 9\}$, define a relation R from A to B by $R = \{(x, y) : \text{the difference between } x \text{ and } y \text{ is odd}\}$. Find R in roster form and represent it via an arrow diagram.

Q3. Find the domain and range of the real function $f(x) = \sqrt{16 - x^2}$.

Q4. Let R be a relation on the set of integers Z defined by $R = \{(a, b) : a - b \text{ is divisible by } 5\}$. Prove that R satisfies the reflexive, symmetric, and transitive properties (Equivalence relation concept).

Q5. Application Question: In a supply chain system, let A be the set of warehouse codes $A = \{101, 102, 103\}$ and B be the set of retail outlets $B = \{501, 502\}$. If a relation R represents direct shipping routes where $R = \{(101, 501), (102, 501), (103, 502)\}$, determine the total possible number of relations from A to B and state whether R is a function. Explain your reasoning.

Chapter 3: Sequence and Series

Q1. The 5th term of an Arithmetic Progression (AP) is 30 and the 12th term is 65. Find the sum of the first 20 terms of this AP.

- Q2.** Find the sum of all natural numbers between 100 and 1000 which are multiples of 7.
- Q3.** The sum of the first three terms of a Geometric Progression (GP) is $\frac{13}{12}$ and their product is -1. Find the common ratio and the terms.
- Q4.** An investor puts \$2,000 into a fund at the beginning of every year. If the fund compounds annually at a rate of 8% per annum, what will be the total value of the investment at the end of 5 years? (Use GP sum formula).
- Q5.** Application Question: A manufacturing company produces 6,000 units in its first year. Assuming the production increases by a fixed percentage of 10% every year (forming a Geometric Progression), calculate the total production of the company over a span of 6 years. Round off your answer to the nearest whole number.

Chapter 4: Permutations and Combinations

- Q1.** Find the number of 4-digit numbers that can be formed using the digits 1, 2, 3, 4, 5, 6 if (i) repetition of digits is allowed, (ii) repetition of digits is not allowed.
- Q2.** In how many ways can the letters of the word 'PERMUTATION' be arranged if the vowels are always together?
- Q3.** A marketing committee of 5 members is to be selected from a group of 6 men and 4 women. In how many ways can this be done if the committee must contain (i) exactly 2 women, (ii) at least 3 men?
- Q4.** If $nC8 = nC2$, find the value of n and hence evaluate $nC3$.
- Q5.** Application Question: An online banking portal requires users to create a secure password consisting of 2 distinct uppercase letters followed by 3 distinct digits. Calculate the total number of unique password combinations possible. If the portal decides to allow repetition of digits, how many more combinations become available?

Section 5: Case Study & Financial Application

Scenario: Logistics Optimization and Financial Growth Plan

A modern e-commerce delivery startup is planning its festive season operations. The startup operates regional hubs categorized into subsets, relies on sequential salary/bonus growth models for its delivery executives, and requires unique barcode combinations for tracking packages.

Based on the operations data, answer the following financial and algebraic questions:

- Part a).** The HR department introduces a performance bonus that grows linearly. An executive receives a bonus of \$150 in the first month, and it increases by \$25 every subsequent month. Calculate the total bonus earned by the executive over 12 months.
- Part b).** The core planning team consists of 8 senior managers. For a specialized festive task force, a sub-committee of 4 managers needs to be created. However, 2 specific managers refuse to work together. In how many ways can the sub-committee be formed?

Part c). Packages are scanned using a 5-character alphanumeric sorting tag. The first 2 characters must be distinct vowels (A, E, I, O, U) and the remaining 3 characters must be distinct non-zero digits (1-9). Find the total number of tracking tags that can be generated.

Class XI- computer

Topic for loop in Python

1. Basic for loop with range()

Write a Python program using a for loop to print numbers from 1 to 20. Also modify the program to print only the even numbers between 1 to 20.

2. Sum of Numbers

Write a program using a for loop to calculate the sum of first 10 natural numbers. Display the sum at the end.

3. Multiplication Table

Write a program using a for loop to print the multiplication table of a number entered by the user. The table should be printed up to 10.

4. Factorial

Write a program using a for loop to find the factorial of a number entered by the user.

5. for loop with String

Write a program using a for loop to count the number of vowels and consonants in a string entered by the user.

6. for loop with List

Given a list marks = [78, 85, 92, 65, 88], write a program using a for loop to find and display the largest and smallest marks from the list.

7. Pattern Printing

Write a program using a nested for loop to print the following pattern:

```
*  
**  
*  
**  
***
```

8. Pattern Printing - Numbers

Write a program using a nested for loop to print the following pattern:

```
1  
12  
123  
1234  
12345
```

9. for loop with break and continue

Explain the use of break and continue statements in a for loop with suitable examples. Write a program to print numbers from 1 to 10 but skip number 5 using continue, and stop the loop when number 8 is reached using break.

10. for loop with else

Explain the use of for-else in Python. Write a program to check whether a given number is prime or not using a for loop with else.

Class XI

Topic while loop:

1. Basic while loop

Write a Python program using a while loop to print numbers from 1 to 10.

2. Sum of Digits

Write a program using a while loop to find the sum of digits of a number entered by the user.

Example: Input 123, Output: 6

3. Reverse a Number

Write a program using a while loop to reverse a number entered by the user. Example: Input 456, Output: 654

4. Counting

Write a program using a while loop to count the total number of digits in a number entered by the user.

5. Multiplication Table

Write a program using a while loop to print the multiplication table of a number entered by the user up to 10.

6. Factorial using while

Write a program using a while loop to calculate the factorial of a number entered by the user.

7. Sum until 0

Write a program that repeatedly asks the user to enter numbers using a while loop and adds them. The loop should stop when the user enters 0. Finally, display the total sum.

8. Guessing Game

Write a program that uses a while loop to implement a simple number guessing game. The computer has a fixed number (e.g., 7). The user keeps guessing until they guess the correct number.

9. Infinite Loop and break

What is an infinite while loop? Write a program to demonstrate an infinite loop and explain how break statement is used to exit from it.

10. while-else and Difference

Explain the use of while-else in Python with a suitable example. Also, differentiate between while loop and for loop with one example each.

Class XI

Topic Logic Gates

1. Basic Gates

Draw the logic symbols, write the truth tables and Boolean expressions for the three basic gates - AND, OR and NOT.

2. NAND and NOR Gates

What are Universal Gates? Draw the logic symbols and truth tables for NAND and NOR gates. Explain why they are called universal gates.

3. XOR and XNOR Gates

Draw the truth tables for XOR and XNOR gates. Write their Boolean expressions. Also, explain the difference between XOR and OR gate with an example.

4. Circuit Design

Draw a logic circuit for the Boolean expression: $Y = (A + B) \cdot (A' + C)$ using AND, OR and NOT gates only.

5. Verification

Given the Boolean expression $F = A \cdot B + A' \cdot B'$, draw its logic circuit using basic gates and verify it by constructing its truth table.

6. De Morgan's Laws

State De Morgan's Laws. Verify both laws using truth tables.

7. Simplification

Simplify the following Boolean expressions using Boolean laws:

a) $F = A + A' \cdot B$

b) $F = (A + B) \cdot (A + B')$

c) $F = A \cdot B + A \cdot B' + A' \cdot B$

8. NAND Implementation

Implement the following gates using NAND gates only:

a) AND gate

b) OR gate

c) NOT gate

9. Application

Design a logic circuit for a 2-input half adder using XOR and AND gates. Draw its truth table and write the expressions for Sum and Carry.

10. Real Life Application

Explain the working of a logic gate with a real-life example (e.g., a burglar alarm system that rings when the door is open OR the window is broken). Identify which gate is suitable for this situation and justify your answer.

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PHYSICS HOLIDAY HOMEWORK
Class 11

Chapter: System of Particles and Rotational Motion

Instructions: Answer all ten questions cleanly and show your step-by-step working for numerical problems.

Q1. Does the center of mass of a rigid body necessarily have to lie inside the physical material of the body? Justify your answer using a real-world example.

Q2. Three particles of masses 1 kg, 2 kg, and 3 kg are located at the corners of an equilateral triangle of side length 1 m. Calculate the exact (x, y) coordinates of the center of mass of this system, assuming the 1 kg mass is positioned at the origin (0,0).

Q3. State and prove the Theorem of Parallel Axes for the moment of inertia of a rigid body.

Q4. What would happen to the exact duration of a day if the polar ice caps were to melt completely and the resulting water spread out away from the Earth's axis of rotation? Explain the physics principle behind this.

Q5. A constant force vector $F = 3i + 2j - 4k$ Newtons acts on a particle whose position vector relative to the origin is $r = i - j + 2k$ meters. Determine the resulting torque vector acting on the particle about the origin.

Q6. Define the term "couple" as used in rotational mechanics. Why is a couple physically incapable of producing linear acceleration in a body?

Q7. Derive the rotational analogue of Newton's second law, establishing the exact mathematical relationship $\text{torque} = I\alpha$ for a rigid body rotating about a fixed axis.

Q8. A horizontal circular disc of mass M and radius R rotates smoothly about its central vertical axis with an initial angular velocity ω_0 . If two small masses, each weighing md , are gently dropped and stuck onto the opposite outer edges of the disc's diameter, what will be the new angular velocity of the system?

Q9. Derive a general mathematical expression for the total kinetic energy of a solid sphere of mass M and radius R that is rolling smoothly without slipping along a horizontal surface.

Q10. A heavy flywheel with a mass of 50 kg and a radius of gyration equal to 0.4 m is spinning at a uniform speed of 300 rpm. Calculate its total rotational kinetic energy, and find the constant braking torque required to bring this flywheel to a complete stop within exactly 10 seconds.

HOLIDAY HOMEWORK

CLASS:- XI

SUBJECT :- CHEMISTRY

CHAPTER:- CHEMICAL BONDING AND MOLECULAR STRUCTURE

1. (a) Write the favourable factors for formation of ionic bond
(b) Show the formation of ionic bond in MgO and CaF₂.
2. Discuss the shape of following molecules using VSEPR model.
H₂O, NH₃, NH₄⁺, BCl₃
3. Discuss the formation of PF₅ and SF₆.
4. Define hydrogen bond. What are the conditions for formation of hydrogen bond?
5. What is meant by the term bond order ? calculate the bond order of : N₂, O₂, O₂⁺.
6. Distinguish between a sigma and a pi bond.
7. What is meant by hybridisation of atomic orbitals? Describe the shapes of sp, sp², sp³ hybrid orbitals.
8. Draw diagrams showing the formation of a double bond and a triple bond between carbon atoms in C₂H₂, C₂H₄ molecules.
9. Which out of NH₃ and NF₃ has higher dipole moment and why ?
10. Define electronegativity. How does it differ from electron gain enthalpy.
11. Describe the hybridisation in case of PCl₅. Why are the axial bond longer as compared to equatorial bonds?
12. What is the total number of sigma and pi bonds in the following molecules?
(a) C₂H₂ (b) C₂H₄ (c) C₂H₆

Holiday Homework

Subject - Biology

Class-11

1. Complete notes of Biochemistry (Biomolecules and cell cycle) in H W. Copy.
2. Solve NCERT exercise in same copy.
3. Solve 200 MCQ related to above chapters and learn notes in all respects.
4. Submit copy after opening the school.

DURGA PUJA HOLIDAY HOMEWORK

CLASS XI – ACCOUNTANCY

Session: 2026–27

Practical Questions from D.K. Goel

Do the following questions:

Question Nos.: 1, 3, 5, 7, 8, 10, 11, 12, 14, 15, 17, 18, 19, 20 and 21.

CHAPTER ASSESSMENT

Objective Type Questions

- 1 Social responsibility of a business refers to efforts on the part of a business to contribute to the welfare of society.
(a) compulsory (b) voluntary
(c) legal (d) ethical
- 2 Increase in industrial and business activities has caused an increase in asthma patients. Asthma is caused by
(a) land pollution (b) noise pollution
(c) air pollution (d) None of these
- 3 Legal provisions make it compulsory for certain classes of to be socially responsible.
(a) partnership firms
(b) cooperative societies
(c) companies
(d) sole proprietorship firms
- 4 Which of the following amount to unethical business practices towards customers?
(a) Dishonest advertising
(b) Unfair pricing
(c) Improper after sale servicing
(d) All of these

Answers

1. (b) | 2. (c) | 3. (c) | 4. (d)

Short Answer Type Questions

- 5 What arguments you can give in favour of social responsibility of business?
- 6 According to you, state why is business responsible for environment protection?
- 7 Give any four examples of business ethics.
- 8 You have often heard the concept of Corporate Social Responsibility. What does this mean?

Long Answer Type Questions

- 9 What do you understand by the concept of social responsibility? Also, briefly explain the various kinds of social responsibility.
- 10 "The business is responsible for aggravating pollution, so it becomes the moral duty of businessmen to take some positive steps for controlling this problem." In the light of this statement explain the role of businessmen in checking pollution.

CHAPTER ASSESSMENT

Objective Type Questions

- 1 is a pre-requisite for implementation of e-business.
(a) Website
(b) Virtual private network
(c) Antivirus
(d) Payment mechanism
- 2 Which one of the following is not an advantage of traditional business?
(a) Direct interaction with customer
(b) Low transaction risks than e-business
(c) Opportunity for physical sampling of goods
(d) Ease of going global
- 3 Out of the following, which is an advantage of e-business?
(a) Personal touch (b) Confidentiality
(c) People acceptance (d) Paperless
- 4 The payment mechanism typical to e-business
(a) Cash on delivery (CoD)
(b) cheques
(c) credit and debit cards
(d) e-cash

Answers

1. (a) 2. (d) 3. (d) 4. (d)

Short Answer Type Questions

- 5 Write a short note on financial services.
- 6 e-Business includes e-Commerce. Do you agree? Discuss.
- 7 Describe briefly any two applications of e-business.
- 8 Briefly describe the data storage and transmission risks in e-business.
- 9 Describe process of online trading.

Long Answer Type Questions

- 10 "Scope of e-business is wide." In context to this, elaborate the scope of e-business, with examples.
- 11 Enumerate the concept and *benefits* of e-business.
- 12 What are the various security problems that arise in E-Commerce transaction?

CLASS XI: HISTORY HOLIDAY HOMEWORK

CHAPTER: DISPLACING INDIGENOUS PEOPLES

General Instructions: Complete all activities in a neat, presentable manner. The assignment is designed to enhance your analytical skills, map work accuracy, and historical empathy regarding the experiences of native populations in North America and Australia.

Activity 1: Comparative Research Profile

Choose one native community from North America (e.g., Hopi, Cherokee, Lakota) and one from Australia (e.g., Yolgnu, Kamilaroi). Create a comparative profile focusing on the following themes:

- Traditional lifestyle, social structure, and relationship with nature.
- The impact of European settlement and expansion (treaties broken, forced relocations).
- Contemporary efforts for land rights and cultural revival.

Format: 3-4 pages with visual illustrations, maps, and primary quote sources.

Activity 2: Historical Mapping Exercise

On an outline map of North America and Australia, identify and mark the following:

- **North America:** The 'Trail of Tears' route, the original territories of the Cherokee, and major early reservations.
- **Australia:** Areas where major frontier conflicts occurred (e.g., Black War in Tasmania) and locations of native reserves.

Activity 3: Critical Thinking & Short Answers

1. Contrast the European concept of 'land ownership' with the indigenous perspective of 'belonging to the land'.
2. Explain what the term 'Terra Nullius' meant and how it was used to justify the displacement of Indigenous Australians.
3. Analyze the significance of the 'Trail of Tears' (1838-1839) in the history of the United States' expansion westward.

4. What was the 'Stolen Generation' in Australia? Discuss its long-term socio-cultural impact on indigenous families.

5. Read Washington's or Chief Seattle's famous speeches regarding land. Write a brief reflection (150 words) on the emotional and cultural weight behind their words.

Activity 4: Creative Perspective Writing

Imagine you are an indigenous teenager living during the late 19th century in either North America or Australia. Write a series of **three diary entries** reflecting on the changes happening to your community's landscape, language, and freedom due to colonial expansion policies. Focus on historical accuracy while conveying emotional depth.

CLASS-11 FINE ARTS

Still life study by watercolor

Or

Madhubani painting on festival