KENDRIYA VIDYALAYA KHARIAR

PRACTICAL LIST FOR SUBJECT AI

CLASS XI

Practical–1

Categorize the given applications into the **three AI domains** as given in the Student Handbook.

Practical–2

Identify **ten companies** currently hiring employees for **specific AI positions**.

Practical–3

Note down the **technical skills and soft skills** listed by **any two companies** for a specific AI job role.

Practical–4

Python programs using:

- Operators
- Data Types
- Control Statements
  (Level 1)

Practical–5

Python programs based on:

- NumPy
- Pandas
- Scikit-learn
  (Level 2)

Practical–6

Create an **Empathy Map** for a given real-life scenario.

Scenario:
Rohan is a Class X student. He studies regularly but becomes extremely anxious during exams. He

fears disappointing his parents and teachers. Due to stress, he forgets answers he already knows and loses confidence while writing exams.

Empathy Map Focus:
Understanding Rohan's thoughts, feelings, fears, and needs during exam time.

Practical–7

Create a **Project Abstract** using the **Design Thinking Framework**.

Practical–8

Python programs to demonstrate the use of:

- Mean
- Median
- Mode
- Standard Deviation
- Variance

Practical–9

Python programs to visualize:

- Line Graph
- Bar Graph
- Histogram
- Scatter Plot
- Pie Chart
  using **Matplotlib**.

Practical–10

Calculation of **Pearson's Correlation Coefficient** using **MS Excel**.

Practical–11

Demonstration of **Linear Regression** using **MS Excel**.

Practical–12

Create a **Chatbot for ordering ice-creams** using any one of the following platforms:

- Google Dialogflow
- Botsify.com
- Botpress.com
- Any other suitable online platform

Practical–13

Summarize insights and interpretations from the video:
“Humans Need Not Apply”

Practical–14

Comparative study of **AI policies**, examining guidelines and principles established by different organizations and regulatory bodies.

Practical–15

Understanding **ethical dilemmas** using:

- Moral Machine
- Survival of the Best Fit

****

NAME- MANORANJAN THAPA

PGT PHYSICS

CLASS XI – PHYSICS

Chapters:

- Ch 10: Thermal Properties of Matter
- Ch 11: Thermodynamics

Work to be Done:

1. **Notes:**
    - Definitions, laws, formulae, and applications
2. **Numerical:**
    - *10 numericals per chapter* (stepwise solution)
3. **DPPS:**

CLASS XI

MATHS

DO ALL THE SAMPLE QUESTION PAPER GIVEN IN SAMPLE PAPER BOOKLET ISSUED BY KVS, RO, BBSR AS ALREADY SHARED IN WHATS APP GROUP.

CLASS XI

MATHS

DO ALL THE SAMPLE QUESTION PAPER GIVEN IN SAMPLE PAPER BOOKLET ISSUED BY KVS, RO, BBSR AS ALREADY SHARED IN WHATS APP GROUP.

FOR CLASS VIII & XI

1. Create a book of your own design using **StoryJumper** webtool's by giving appropriate book title and pictures.

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

Winter Break Homework – Class XI (English)

TASK 1: Literary Appreciation

Read Hornbill/Snapshots text. Write appreciation of any text (150 words).

TASK: 2: Speech Writing

"Silence Speaks Louder than Words" (150–200 words).

TASK 3: Speech Writing

"Mental Health Awareness in Schools". (150–200 words).

NAME- MANORANJAN THAPA

PGT PHYSICS

CLASS XI – PHYSICS

Chapters:

- Ch 10: Thermal Properties of Matter
- Ch 11: Thermodynamics

Work to be Done:

1. **Notes:**
    - Definitions, laws, formulae, and applications
2. **Numerical:**
    - *10 numericals per chapter* (stepwise solution)
3. **DPPS:**

Class 11
Biology
Winter break homework

CELL CYCLE AND CELL DIVISION

1. Describe the cell cycle. Explain different phases of interphase in detail.
2. Explain mitosis with the help of neat, labelled diagrams. Add its significance.
3. Describe meiosis in detail. How is it different from mitosis?
4. Explain the events of prophase I of meiosis with suitable diagrams.
5. Describe the regulation of cell cycle and role of checkpoints.

BIOMOLECULES

6. Describe the structure and functions of carbohydrates. Give suitable examples.
7. Explain the structure of proteins. Describe different levels of protein organisation.
8. Describe the structure and functions of lipids.
9. Explain the structure of nucleic acids (DNA and RNA) and mention their functions.
10. Describe enzymes as biological catalysts. Explain factors affecting enzyme activity.

PHOTOSYNTHESIS IN HIGHER PLANTS

11. Describe the light reaction of photosynthesis. Explain its significance.
12. Explain the Calvin cycle with the help of a schematic diagram.
13. Differentiate between C_3 and C_4 pathways of photosynthesis.
14. Describe the factors affecting photosynthesis.
15. Explain photorespiration and its importance.

RESPIRATION IN PLANTS

16. Describe glycolysis in detail. Mention its significance.
17. Explain the Krebs cycle with the help of a diagram.
18. Describe the electron transport system (ETS) and oxidative phosphorylation.
19. Differentiate between aerobic and anaerobic respiration.
20. Explain the respiratory quotient (RQ) and its significance.

Instructions

Complete these in HW copies.

Submit for evaluation after vacation.

Practice these for upcoming examination.

Thermodynamics – 20 Questions

1. State the **First Law of Thermodynamics** and explain it using an example of expansion work.
2. Define **internal energy (U)**. How does it change during **isothermal expansion of a gas**?
3. Distinguish between **open, closed and isolated systems** with examples.
4. Explain **state functions vs. path functions** with suitable examples.
5. What is **enthalpy of reaction**? How is it related to heat exchanged at constant pressure?
6. Define **heat capacity and specific heat capacity**. How are they related?
7. State **Hess's Law**. How can it be used to calculate **enthalpy of formation**?
8. Explain **enthalpy of fusion, vaporization and sublimation** with examples.
9. What are **exothermic and endothermic reactions**? Give one example each.
10. Explain the concept of **bond enthalpy** and its role in determining the **enthalpy of reaction**.
11. What is **lattice enthalpy**? Compare lattice enthalpy of **NaCl and MgO** qualitatively.
12. Define **entropy**. Why does entropy increase when ice melts?
13. Explain **spontaneity** in terms of **Gibbs free energy (ΔG)**.
14. What conditions of **ΔH and ΔS** favour a spontaneous reaction?
15. State the **Second Law of Thermodynamics** and explain any one statement.
16. Explain the **relationship between ΔG and equilibrium constant (K)**.
17. What is **standard enthalpy of formation**? Write its conventions.
18. Distinguish between **reversible and irreversible processes** with examples.
19. Explain **work of expansion (PV-work)** for a gas expanding against constant external pressure.
20. State the **Third Law of Thermodynamics**. Why is absolute zero unattainable?

Chemical Equilibrium – 20 Questions

1. State the **Law of Mass Action** and derive the **equilibrium constant expression** for a general reaction.
2. Distinguish between **physical and chemical equilibrium** with examples.
3. Explain **characteristics of equilibrium state** for a chemical reaction.
4. Define **Kc and Kp**. How are they related?
5. What is **reaction quotient (Q)**? How does it predict the direction of a reaction?
6. Compare **homogeneous and heterogeneous equilibrium** with examples.
7. State **Le-Chatelier's Principle** and apply it to change in concentration.
8. Explain the effect of **pressure on gaseous equilibrium** using Le-Chatelier's principle.

9. Why do **catalysts not affect equilibrium constant** although they increase rate?
10. Explain the effect of **temperature** on **Kc and Kp**.
11. Derive relation **Kp = Kc (RT)^Δn**.
12. Explain the **common-ion effect** on the equilibrium of a weak electrolyte.
13. Define **buffer solutions**. How do they resist change in pH?
14. What is **degree of dissociation (α)**? How does dilution affect α for weak acids?
15. Explain **ionisation of weak acids** using **Ostwald's dilution law**.
16. What is **solubility product (Ksp)**? How does it predict precipitation?
17. Explain the concept of **hydrolysis of salts** with an example.
18. Define **pH and pOH**. Derive the relation **pH + pOH = 14 at 25°C**.
19. Distinguish between **acidic buffer and basic buffer** with suitable examples.
20. Explain **relationship between ΔG and equilibrium constant** for a reaction.

Redox Reactions – 20 Questions

1. Define **redox reaction** and identify oxidation and reduction in: (\text{Zn + CuSO}_4 \rightarrow \text{ZnSO}_4 + Cu).
2. Explain **oxidation number rules** with three examples.
3. Determine oxidation number of **Mn in $KMnO_4$** and **Cr in $K_2Cr_2O_7$**.
4. Distinguish between **oxidizing agents and reducing agents** with examples.
5. Define **disproportionation**. Give one example and explain.
6. What is **auto-oxidation**? Explain with an example.
7. Explain **ion–electron method** for balancing a redox reaction in acidic medium.
8. Balance the reaction in basic medium using **ion–electron method**: (\text{MnO}_4^- + \text{I}^- \rightarrow \text{MnO}_2 + \text{I}_2).
9. Explain **loss and gain of electrons concept** for redox reactions.
10. Write a note on **redox reactions in everyday life** (rusting/bleaching/respiration – any two).
11. Define **equivalent weight of oxidising agent** with formula and example.
12. Explain **oxidation number change method** for balancing redox equations.
13. Explain why **chlorine acts as an oxidising agent** in redox reactions.
14. What are **redox couples**? Give two examples.
15. Explain the concept of **Standard Electrode Potential (E°)**.
16. Why does **higher reduction potential mean stronger oxidising agent**?
17. What is **dismutation (disproportionation)**? Show using chlorine reaction with base.
18. Explain the **difference between oxidation state and valency**.
19. Describe a **redox reaction in metallurgy** (any example – extraction of Cu/Fe).
20. Give differences between **electrochemical and electrolytic cells** on redox basis.

KENDRIYA VIDYALAYA KHARIAR

PRACTICAL LIST FOR SUBJECT AI

CLASS XI

Practical–1

Categorize the given applications into the **three AI domains** as given in the Student Handbook.

Practical–2

Identify **ten companies** currently hiring employees for **specific AI positions**.

Practical–3

Note down the **technical skills and soft skills** listed by **any two companies** for a specific AI job role.

Practical–4

Python programs using:

- Operators
- Data Types
- Control Statements
  (Level 1)

Practical–5

Python programs based on:

- NumPy
- Pandas
- Scikit-learn
  (Level 2)

Practical–6

Create an **Empathy Map** for a given real-life scenario.

Scenario:
Rohan is a Class X student. He studies regularly but becomes extremely anxious during exams. He

fears disappointing his parents and teachers. Due to stress, he forgets answers he already knows and loses confidence while writing exams.

Empathy Map Focus:
Understanding Rohan's thoughts, feelings, fears, and needs during exam time.

Practical–7

Create a **Project Abstract** using the **Design Thinking Framework**.

Practical–8

Python programs to demonstrate the use of:

- Mean
- Median
- Mode
- Standard Deviation
- Variance

Practical–9

Python programs to visualize:

- Line Graph
- Bar Graph
- Histogram
- Scatter Plot
- Pie Chart
  using **Matplotlib**.

Practical–10

Calculation of **Pearson's Correlation Coefficient** using **MS Excel**.

Practical–11

Demonstration of **Linear Regression** using **MS Excel**.

Practical–12

Create a **Chatbot for ordering ice-creams** using any one of the following platforms:

- Google Dialogflow
- Botsify.com
- Botpress.com
- Any other suitable online platform

Practical–13

Summarize insights and interpretations from the video:
“Humans Need Not Apply”

Practical–14

Comparative study of **AI policies**, examining guidelines and principles established by different organizations and regulatory bodies.

Practical–15

Understanding **ethical dilemmas** using:

- Moral Machine
- Survival of the Best Fit

****

WORKSHEET – LIST MANIPULATION

1	What will be the output of following code- **list1=[1, 3, 2]** **list1 * 2** **Ans:** [1, 3, 2, 1, 3, 2]
2	What will be the output of following code- **l="Welcome to Python".split()** **l** **Ans:** ['Welcome', 'to', 'Python']
3	What will be the output of following code- **print([i.lower() for i in "HELLO"])** **Ans:** ['h', 'e', 'l', 'l', 'o']
4	What will be the output of following code- **a=[[[1,2],[3,4],5],[6,7]]** **a[0][1][1]** Ans: 4
5	What will be the output of following code- **a,b=[3,1,2],[5,4,6]** **a+b** Ans: [3, 1, 2, 5, 4, 6]
6	**What will be the output of following program:** **a=[2,1,3,5,2,4]** **a.remove(2)** **a** Ans: [1, 3, 5, 2, 4]

7	**Explain List Comprehension and Elegant way to create new List:**
	
	Ans:
	
	1. List comprehension is an elegant and concise way to create new list from an existing list in Python.
	2. List comprehension consists of an expression followed by for statement inside square brackets.
	3. Here is an example to make a list with each item being increasing power of 2.
	
	pow2 = [2 ** x for x in range(10)]
	
	# Output: [1, 2, 4, 8, 16, 32, 64, 128, 256, 512]
	print(pow2)
	
	This code is equivalent to:
	
	pow2 = []
	for x in range(10):
	  pow2.append(2 ** x)

8	**What will be the output of following program:** **theList=[1, 2, [1.1, 2.2]]** **len(theList)** **Ans:** 3
9	**What will be the output of following program:** **my_list = ['p', 'r', 'o', 'b', 'l', 'e', 'm']** **print('p' in my_list)** **print('a' in my_list)** **print('c' not in my_list)** **Ans:** True False True
10	**What will be the output of following program:** **for fruit in ['apple','banana','mango']:** **print("I like",fruit)** **Ans:** I like apple

	I like banana I like mango
11	**What will be the output of following program:** **pow2 = [2 ** x for x in range(10) if x > 5]** **pow2** **Ans:** [64, 128, 256, 512]
12	**What will be the output of following program:** **odd = [x for x in range(20) if x % 2 == 1]** **odd** **Ans:** [1, 3, 5, 7, 9, 11, 13, 15, 17, 19]
13	**What will be the output of following program:** **l=[x+y for x in ['Python ','C '] for y in ['Language','Programming']]** **l** **Ans:** ['Python Language', 'Python Programming', 'C Language', 'C Programming']
14	**What will be the output of following program:** **odd = [1, 9]** **odd.insert(1,3)** **print(odd)** **odd[2:2] = [5, 7]** **print(odd)** **Ans:** [1, 3, 9] [1, 3, 5, 7, 9]
15	**What will be the output of following program:** **odd = [1, 3, 5]** **print(odd + [9, 7, 5])** **print(["re"] * 3)** **Ans:** [1, 3, 5, 9, 7, 5] ['re', 're', 're']
16	**What will be the output of following program:** **odd = [2, 4, 6, 8]** **odd[0] = 1** **print(odd)**

	odd[1:4] = [3, 5, 7] **print(odd)** **Ans:** [1, 4, 6, 8] [1, 3, 5, 7]
17	**What will be the output of following program:** **list1 = ["python", "list", 1952, 2323, 432]** **list2 = ["this", "is", "another", "list"]** **print(list1)** **print(list1[1:4])** **print(list1[1:])** **print(list1[0])** **print(list1 * 2)** **print(list1 + list2)** **Ans:** ['python', 'list', 1952, 2323, 432] ['list', 1952, 2323] ['list', 1952, 2323, 432] python ['python', 'list', 1952, 2323, 432, 'python', 'list', 1952, 2323, 432] ['python', 'list', 1952, 2323, 432, 'this', 'is', 'another', 'list']
18	**What will be the output of following program:** **l=[10,20,30,40,50,60]** **for i in range(1,6):** **l[i-1]=l[i]** **for i in range(0,6):** **print(l[i],end='')** **Ans:** 20 30 40 50 60 60
19	**What will be the output of following program:** **l=[6,12,18,24,30]** **for i in l:** **for j in range(1,i%5):** **print(j,'#',end='')** **print()** **Ans:** 1 # 1 #2 # 1 #2 #3 #

20	**What will be the output of following program:** **names = ['Hardik', 'Virat', 'Rahul', 'Dhavan']** **print(names[-1][-1])** **Ans:** n
21	**What will be the output of following program:** **"Welcome to Python4csip.com".split()** **Ans:** ['Welcome', 'to', 'Python4csip.com']
22	**What will be the output of following program:** **myList = [1, 5, 5, 5, 5, 1]** **max = myList[0]** **indexOfMax = 0** **for i in range(1, len(myList)):** **if myList[i] > max:** **max = myList[i]** **indexOfMax = i** **print(indexOfMax)** **Ans:** 1
23	**What will be the output of the program?** **m = [[x, x + 1, x + 2] for x in range(0, 3)]** **m** **Ans:** [[0, 1, 2], [1, 2, 3], [2, 3, 4]]
24	**What will be the output of following program:** **list("a#b#c#d".split('#'))** **Ans:** ['a', 'b', 'c', 'd']
25	**What will be the output of following program:** **values = [[3, 4, 5, 1], [33, 6, 1, 2]]** **for row in values:** **row.sort()** **for element in row:** **print(element, end = " ")** **print()**

	Ans: 1 3 4 5 1 2 6 33
26	**What will be the output of following program:** **data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]** **print(data[1][0][0])** **Ans:** 5
27	**What will be the output of following program:** **a="hello"** **b=list((x.upper(),len(x)) for x in a)** **print(b)** **Ans:** [('H', 1), ('E', 1), ('L', 1), ('L', 1), ('O', 1)]
28	**What will be the output of following program:** **a=[[]]*3** **a[1].append(7)** **print(a))** **Ans:** [[7], [7], [7]]
29	**What will be the output of following program:** **L1 = list()** **L1.append([1, [2, 3], 4])** **L1.extend([7, 8, 9])** **print(L1[0][1][1] + L1[2])** **Ans:** 11
30	**What will be the output of following program:** **List = [True, 50, 10]** **List.insert(2, 5)** **print(List, "Sum is: ", sum(List))** **Ans:** [True, 50, 5, 10] Sum is: 66
31	**What will be the output of following program:** **T = [1, 2, 3, 4, 5, 6, 7, 8]** **print(T[T.index(5)], end = " ")**

	print(T[T[T[6]-2]-4]) **Ans:** 5 3
32	**What will be the output of following program:** **aList = [4, 8, 12, 16]** **aList[1:4] = [20, 24, 28]** **print(aList)** **Ans:** [4, 20, 24, 28]
33	**What will be the output of following program:** **l = [None] * 10** **print(len(l))** **Ans:** 10
34	**What will be the output of following program:** **sampleList = [10, 20, 30, 40, 50]** **sampleList.pop()** **print(sampleList)** **sampleList.pop(2)** **print(sampleList)** **Ans:** [10, 20, 30, 40] [10, 20, 40]
35	**What will be the output of following program:** **resList = [x+y for x in ['Hello ', 'Good '] for y in ['Dear', 'Bye']]** **print(resList)** **Ans:** ['Hello Dear', 'Hello Bye', 'Good Dear', 'Good Bye']
36	**What will be the output of following program:** **aList1 = [123, 'xyz', 'zara', 'abc'];** **aList.insert (3,2009)** **print ("Final List:::", aList)** **Ans:**

	Final List::: [4, 20, 24, 2009, 28]
37	**What will be the output of following program:** **A = [2, 4, 6, 8,10]** **L = len (A)** **S = 0** **for I in range (1, L, 2):** **S+=A[I]** **print("Sum=",S)** **Ans:** Sum= 12
38	**Given a Python list, find value 20 in the list, and if it is present, replace it with 200. Only update the first occurrence of a value** **list1 = [5, 10, 15, 20, 25, 50, 20]** **Expected output:** **list1 = [5, 10, 15, 200, 25, 50, 20]** **Ans:** list1 = [5, 10, 15, 20, 25, 50, 20] index = list1.index(20) list1[index] = 200 print(list1)
39	**Which function is used to reverse objects of list in place.** Ans: list.reverse ()
40	**Write a Python program to sum all the items in a list.** **Ans:** l=[4,5,8,9,40,45,14,17,10] sum= 0 for i in l: sum=sum+i

	print('sum of all the elements in List is :::',sum)

41	**Write a Python program to get the largest number from a list.**
	Ans:
	l=[4,5,8,9,40,45,14,17,10]
	max =l[0]
	for a in l:
	  if a > max:
	  max = a
	print(max)

42	**Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings.**
	Sample List : ['abc', 'xyz', 'cbc', '121']
	Expected Result : 2
	Ans:
	l=['abc', 'xyz', 'cdc', '121']
	c=0
	for word in l:
	  if len(word) > 1 and word[0] == word[-1]:
	  c=c+1
	print(c)

43	**Write a Python program to remove duplicates from a list.**
	Ans:
	l = [10,20,30,20,10,50,60,40,80,50,40]
	dup_items =[]
	uniq_items = []
	for item in l:
	  if item not in dup_items:
	  uniq_items.append(item)
	  dup_items.append(item)
	print(dup_items)

44 **Write a program to shift every element of a list to circularly right. E.g.-**
INPUT : 1 2 3 4 5
OUTPUT : 5 1 2 3 4

Ans:

```
l=[1,2,3,4,5,6,7]
mid=int(len(l)/2)
for i in range(mid):
    l[i],l[mid+i]=l[mid+i],l[i]
print(l)
```

45 **Take a list of 10 elements. Split it into middle and store the elements in two dfferent lists. E.g.-**

INITIAL list :

58 24 13 15 63 9 8 81 1 78

After spliting :
58 24 13 15 63

9 8 81 1 78

Ans:

```
l=[58,24,13,15,63,9,8,81,1,78]
mid=int(len(l)/2)
print(l[ :mid])
print(l[mid: ])
```

46 **Python Program to Find the Second Largest Number in a List**

Ans:

```
a=[]
n=int(input("Enter number of elements:"))
for i in range(1,n+1):
    b=int(input("Enter element:"))
    a.append(b)
a.sort()
print("Second largest element is:",a[n-2])
```

47 **What will be the output of the following program:**

```
l=[10,20,30,40,50,60]
for i in range(len(l)):
    if(i%2==0):
        print(l[i],end='#')
    else:
        print(l[i])
```

Ans:

```
10#20
30#40
50#60
```

48

What will be the output of the following program:

```
l=[10,20,30,40,50,60]
for i in range(len(l)):
    if(i%2==0):
        print(l[i],end='#')
    else:
        print(l[i],end='@')
```

Ans:

```
10#20@30#40@50#60@
```

49

Program to Find Even elements in a List:

Ans:

```
a = [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
evenlst = []
for num in a:
    if num % 2 == 0:
        evenlst.append(num)

print("the new even list is", evenlst)
```

50

Program to Print list having numbers less than 10
Ans:

```
a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]
numlst = []
for num in a:
    if num < 10:
        numlst.append(num)

print(numlst)
```

51 **What will be the output of following program:**

```
l=[[i*j for j in range(1,11)] for i in range(7,9)]
l
```

Ans:

```
[[7, 14, 21, 28, 35, 42, 49, 56, 63, 70],
 [8, 16, 24, 32, 40, 48, 56, 64, 72, 80]]
```

52 **WAP to display the frequency of each item in a list.**

Ans:

```
L=[10,12,14,17,10,12,15,24,27,24]
L1=[]
L2=[]
for i in L:
    if i not in L2:
        c=L.count(i)
        L1.append(c)
        L2.append(i)
print('---------------------------------------------------------------------')
print('Item','\t\t','frequency')
for i in range(len(L1)):
    print(L2[i],'\t\t',L1[i])
```

53 **What will be the output of the following program:**

```
l=[6,12,18,24,30]
for i in l:
    for j in range(1,i%4):
        print(j,'#',end='')
    print()
```

Ans:

```
1 #

1 #

1 #
```

WORKSHEET – STRING HANDLING

1	What will be the output of following code- **str="hello"** **str[:2]** **Ans:** 'he'
2	What will be the output of following code- **str='Hello'** **res=''** **for i in range(len(str)):** **res=res+str[i]** **print(res)** **Ans:** Hello
3	What will be the output of following code- **s='Hi!'** **s1='Hello'** **s2=s[:2]+s1[len(s1)-2:]** **print(s2)** **Ans:** Hilo
4	What will be the output of following code- **'ba'+'na'*2** **Ans:** 'banana'
5	What will be the output of following code- **s='Welcome to python4csip.com'** **print(s.find('come'))**

	s.count('o') **Ans:** 3 4
6	**What will be the output of following program:** **s='Hello'** **for i in s:** **print(i,end='#')** **Ans:** H#e#l#l#o#
7	**What will be the output of following program:** **for i in 'hardik':** **print(i.upper())** **Ans:** H A R D I K
8	**What will be the output of following program:** **s='Hello'** **for i in s:** **print('Welcome')** **Ans:** Welcome Welcome Welcome Welcome Welcome
9	**What will be the output of following program:** **str='virat'** **for i in str:**

	print(str.upper()) **Ans:** VIRAT VIRAT VIRAT VIRAT VIRAT
10	**What will be the output of following program:** **a='hello'** **b='virat'** **for i in range(len(a)):** **print(a[i],b[i])** **Ans:** h v e i l r l a o t
11	**What will be the output of following program:** **a='hello'** **b='virat'** **for i in range(len(a)):** **print(a[i].upper(),b[i])** **Ans:** H v E i L r L a O t
12	**What will be the output of following program:** **print("xyyzxyzxzxyy".count('xyy', 2, 11))**

	Ans: 0
13	**What will be the output of following program:** **print(“hello”+1+2+3)** **Ans:** error
14	**What will be the output of following program:** **str1 = "PYTHON4CSIP.COM"** **print(str1[1:4], str1[:5], str1[4:], str1[0:-1], str1[:-1])** **Ans:** YTH PYTHO ON4CSIP.COM PYTHON4CSIP.CO PYTHON4CSIP.CO
15	**What will be the output of following program:** **str = "my name is kunfu pandya";** **print (str.capitalize())** **Ans:** My name is kunfu pandya
16	**What will be the output of following program:** **str1 = 'Hello'** **str2 ='World!'** **print('str1 + str2 = ', str1 + str2)** **print('str1 * 3 =', str1 * 3)** **Ans:** str1 + str2 = HelloWorld! str1 * 3 = HelloHelloHello
17	**What will be the output of following program:** **count = 0** **for letter in 'Hello World':** **if(letter == 'l'):** **count += 1** **print(count,'letters found')** **Ans:** 3 letters found

18	**What will be the output of following program:** **s="python4csip"** **n = len(s)** **m=''** **for i in range(0, n):** **if (s[i] >= 'a' and s[i] <= 'm'):** **m = m + s[i].upper()** **elif (s[i] >= 'n' and s[i] <= 'z'):** **m = m + s[i-1]** **elif (s[i].isupper()):** **m = m + s[i].lower()** **else:** **m = m + '#'** **print(m)** **Ans:** ppyHho#CcIi
19	**What will be the output of following program:** **a = "Mahender Singh Dhoni"** **a = a.split()** **b = a[0][0]+". "+a[1][0]+". "+a[2]** **print (b)** **Ans:** M. S. Dhoni
20	**What will be the output of following program:** **s='Mahender, Singh, Dhoni'** **s1=s.split()** **for i in s1:** **print(i)** **Ans:** Mahender, Singh, Dhoni
21	**What will be the output of following program:** **"Welcome to Python4csip.com".split()** **Ans:**

	['Welcome', 'to', 'Python4csip.com']
22	**What will be the output of following program:** **str ='Hello Python'** **print (str)** **print (str[0])** **print (str[2:8])** **print (str[3:])** **print (str * 3)** **print (str + "String")** **Ans:** Hello Python H llo Py lo Python Hello PythonHello PythonHello Python Hello PythonString
23	**What will be the output of the program?** **line = "PYTHON IS EASY TO LEARN"** **L = line.split('a')** **for i in L:** **print(i, end=' ')** **Ans:** PYTHON IS EASY TO LEARN
24	**What will be the output of following program:** **s='mahender, singh, dhoni'** **s1=s.split()** **for i in s1:** **if(i>'n'):** **print(i.upper())** **else:** **print(i)** **Ans:** mahender, SINGH, dhoni

25	**What will be the output of following program:** **my_string = 'PYTHON4CSIP'** **for i in range(len(my_string)):** **print (my_string)** **my_string = '#'** **Ans:** PYTHON4CSIP # # #

28	**What will be the output of following program:** **str="PYTHON4CSIP"** **for i in range(len(str)):** **if(str[i].isdigit()):** **print(str[i],end='')** **if(str[i]=='N'or str[i]=='Y'):** **print('#',end='')** **Ans:** ##4

29	**Write a Program to Count the Number of Vowels in a String.**
	
	Ans:
	
	string=input("Enter string:")
	vowels=0
	for i in string:
	if(i=='a' or i=='e' or i=='i' or i=='o' or i=='u' or i=='A' or i=='E' or i=='I' or i=='O' or i==
	='U'):
	vowels=vowels+1
	print("Number of vowels are:")
	print(vowels)

30	**Write a Program to Take in a String and Replace Every Blank Space with Hyphen.** Ans: string=input("Enter string:") string=string.replace(' ','-') print("Modified string:") print(string)
31	**Write a Program to Calculate the Length of a String Without Using a Library Function** Ans:

```
string=input("Enter string:")
count=0
for i in string:
    count=count+1
print("Length of the string is:")
print(count)
```

32 **Write a Program to Calculate the Number of Words and the Number of Characters Present in a String**

Ans:

```
string=input("Enter string:")
char=0
word=1
for i in string:
    char=char+1
    if(i==' '):
        word=word+1
print("Number of words in the string:")
print(word)
print("Number of characters in the string:")
print(char)
```

33 **Write a Program to Take in Two Strings and Display the Larger String without Using Built-in Functions**

Ans:

```
string1=input("Enter first string:")
string2=input("Enter second string:")
count1=0
count2=0
for i in string1:
    count1=count1+1
for j in string2:
```

```
    count2=count2+1
if(count1<count2):
    print("Larger string is:")
    print(string2)
elif(count1==count2):
    print("Both strings are equal.")
else:
    print("Larger string is:")
    print(string1)
```

34 **Write a Program to Count Number of Lowercase Characters in a String**

Ans:

```
string=input("Enter string:")
count=0
for i in string:
    if(i.islower()):
        count=count+1
print("The number of lowercase characters is:")
print(count)
```

35 **Write a Program to Check if a String is a Palindrome or Not**

Ans:

```
string=input("Enter string:")
if(string==string[::-1]):
    print("The string is a palindrome")
else:
    print("The string isn't a palindrome")
```

36 **Write a Program to Calculate the Number of Upper Case Letters and Lower Case Letters in a String**

Ans:

```
string=input("Enter string:")
```

```
count1=0
count2=0
for i in string:
    if(i.islower()):
        count1=count1+1
    elif(i.isupper()):
        count2=count2+1
print("The number of lowercase characters is:")
print(count1)
print("The number of uppercase characters is:")
print(count2)
```

37 **Write a Program to Calculate the Number of Digits and Letters in a String.**

Ans:

```
string=input("Enter string:")
count1=0
count2=0
for i in string:
    if(i.isdigit()):
        count1=count1+1
    count2=count2+1
print("The number of digits is:")
print(count1)
print("The number of characters is:")
print(count2)
```

38 **Write a Program to Form a New String Made of the First 2 and Last 2 characters From a Given String**

Ans:

```
string=input("Enter string:")
count=0
```

```
for i in string:
    count=count+1
new=string[0:2]+string[count-2:count]
print("Newly formed string is:")
print(new)
```

39 **Write a Program to Count the Occurrences of Each Word in a Given String Sentence**

Ans:

```
string=input("Enter string:")
word=input("Enter word:")
a=[]
count=0
a=string.split(" ")
for i in range(0,len(a)):
    if(word==a[i]):
        count=count+1
print("Count of the word is:")
print(count)
```

40 **Write a Program to Check if a Substring is Present in a Given String**

Ans:

```
string=input("Enter string:")
sub_str=input("Enter word:")
if(string.find(sub_str)==-1):
    print("Substring not found in string!")
else:
    print("Substring found  in string!")
```

41 **Write a Python Program to check First Occurrence of a Character in a String**

Ans:

```
string = input("Please enter your own String : ")
char = input("Please enter your own Character : ")
flag = 0
for i in range(len(string)):
    if(string[i] == char):
        flag = 1
        break

if(flag == 0):
    print("Sorry! We haven't found the Search Character in this string ")
else:
    print("The first Occurrence of ", char, " is Found at Position " , i + 1)
```

42 **Write a Python Program to find ASCII Value of a Character**

Ans:

```
ch = 'T'

print("The ASCII Value of %c = %d" %(ch, ord(ch)))
```

43 **Write a Python Program to Remove Last Occurrence of a Character in a String**

Ans:

```
string = input("Please enter your own String : ")
char = input("Please enter your own Character : ")
string2 = ''
length = len(string)
for i in range(length):
    if(string[i] == char):
        string2 = string[0:i] + string[i + 1:length]
 print("Original String :  ", string)
print("Final String :     ", string2)
```

Class X – Artificial Intelligence Practical List

PRACTICAL -1

Add Elements of Two Lists

Input:
List1 = [1, 2, 3]
List2 = [4, 5, 6]

Output:
Resultant List = [5, 7, 9]

PRACTICAL 2

Mean, Median and Mode using NumPy

Input:
Data = [10, 20, 30, 40, 50]

Output:
Mean = 30
Median = 30
Mode = 10

Line Chart from (2,5) to (9,10)

Output:
A line graph is displayed joining the points from (2,5) to (9,10).

Scatter Chart

Input Points:
(2,5), (9,10), (8,3), (5,7), (6,18)

Output:
A scatter plot showing all given points.

PRACTICAL 3

Read CSV File and Display 10 Rows

Output:
First 10 rows of the CSV file are displayed on the screen.

Read CSV File and Display Information

Output:
CSV file information such as columns, data types, and non-null count displayed.

Read and Display an Image

Output:

The selected image is displayed successfully.

Read Image and Identify Shape

Output:

The shape of the image (Height, Width, Channels) is displayed.

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

CLASS X Winter Break Homework

1. Your school conducted a survey which revealed that many students suffer from stress and anxiety due to academic pressure. Task:
Write an article for the school magazine on "Academic Pressure and Mental Well-Being of Students" suggesting practical ways to manage stress.
(120–150 words)

2. Many students focus only on marks rather than skills. Task:
Write an article titled "Marks vs Skills: What Truly Matters in the 21st Century?" supporting your views with real-life examples.
(120–150 words)

3.

	Before	Missing Word	After
You'll be glad to that I've filled up the NDA form.	(a)	.....	.....
The entrance test is scheduled the 14th of June.	(b)	.....	.....
I'm thinking joining the REC tutorial centre. I believe	(c)	.....	.....
they are good. Please me ` 1500 for the entrance fee.	(d)	.....	.....
I this money urgently.	(e)	.....	.....

4.

	Before	Missing Word	After
When I for board's examination	(a)	.....	.....
a physical endurance test compulsory.	(b)	.....	.....
They me to run as they timed me.	(c)	.....	.....
The examiner was not and said	(d)	.....	.....
I would have run again.	(e)	.....	.....

Winter Holiday Homework – Class IX

Subject: Artificial Intelligence / Data Literacy

Instructions:

- Attempt all questions.
- Write answers neatly in the AI notebook.
- Case-based answers must be written in complete sentences.

Section A: Multiple Choice Questions (MCQs)

(10 × 1 = 10 Marks)

1. Data literacy refers to the ability to:
   a) Write computer programs
   b) Read, understand, analyze, and use data
   c) Store data only
   d) Play games using data

2. Which of the following is an example of personal data?
   a) Weather report
   b) Mobile number
   c) Traffic signal
   d) School timetable

3. Which data type consists of numbers only?
   a) Qualitative data
   b) Quantitative data
   c) Categorical data
   d) Descriptive data

4. Password protection is related to:
   a) Data collection
   b) Data visualization
   c) Data security
   d) Data preprocessing

5. Which of the following is a source of data?
   a) Sensor
   b) Calculator
   c) Printer
   d) Speaker

6. Removing duplicate values is part of:
   a) Data interpretation
   b) Data preprocessing

c) Data storage
d) Data sharing

7. Probability value always lies between:
   a) –1 and 1
   b) 0 and 1
   c) 1 and 100
   d) –100 and 100

8. Which math concept is used in AI for decision making?
   a) Geometry
   b) Statistics
   c) History
   d) Literature

9. Which tool is commonly used to interpret data?
   a) Bar graph
   b) Keyboard
   c) Mouse
   d) Printer

10. Cyber security mainly protects systems from:
    a) Natural disasters
    b) Cyber-attacks
    c) Power failure
    d) Heat

Section B: One-Line Answer Questions

(10 × 1 = 10 Marks)

21. What is data literacy?
22. Name any one type of data.
23. What is data privacy?
24. Give one example of cyber crime.
25. What is preprocessing of data?
26. What is probability?
27. Name one source of data.
28. What is statistics used for in AI?
29. Write one importance of data.
30. Name one interpretation tool used for data.

Section C: Short Answer Questions (2 Marks Each)

(10 × 2 = 20 Marks)

31. Write two ways to become data literate.
32. Mention two examples of quantitative data.
33. State two best practices of acquiring data.
34. What are two risks related to data privacy?
35. Write two uses of mathematics in AI.
36. Explain data security with two examples.
37. Name two sources of data collection.
38. Write two steps involved in data preprocessing.
39. Mention two applications of statistics in AI.
40. Write two real-life uses of probability.

Section D: Short Answer Questions (3 Marks Each)

(5 × 3 = 15 Marks)

41. Explain the importance of data in Artificial Intelligence.
42. Describe any three types of data with examples.
43. Explain the role of mathematics in understanding AI concepts.
44. What is cyber security? Explain its importance with examples.
45. Explain data interpretation and name three tools used for it.

Section E: Case-Based Questions

(7 × 5 = 35 Marks)

Case 1:

A school collects students' attendance, marks, and health records digitally.

46.

a) Identify the type of data used.
b) Why is data security important here?
c) Suggest two ways to protect this data.

Case 2:

An online shopping website analyzes customer reviews and ratings.

47.

a) What type of data is collected?
b) Name two sources of this data.
c) How does data preprocessing help here?

Case 3:

A weather department predicts rainfall using past data.

48.

a) Which mathematical concept is used?
b) Why is probability important here?
c) Write two benefits of data interpretation.

Case 4:

A bank uses AI to detect fraud transactions.

49.

a) Which AI-related concepts are involved?
b) How does statistics help in this case?
c) Why is cyber security essential?

Case 5:

A student shares personal photos on a public platform.

50.

a) Identify the data privacy issue.
b) Mention two risks involved.
c) Suggest two safety measures.

Case 6:

An AI system removes missing and incorrect values before training.

51.

a) Name this process.
b) Why is it important?
c) Give one example.

Case 7:

An AI-based recommendation system suggests movies based on user interest.

52.

a) What type of data is used?
b) Which mathematical concept helps here?
c) Explain the importance of data in this system.

End of Assignment

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

Winter Break Homework – Class IX (English)

Writing

Diary Entry: "A Day Without Mobile Phone" (120–150 words).

Descriptive Paragraph: A Festival that you have attended. (120–150 words). Descriptive Paragraph: Celebration of a sporting event.

HOLIDAY HOMEWORK(WINTER)

CLASS-9 SUB-SST

Q1.PREAPARE A TIMELINE CHART SHOWING ANY 10 IMPORTANT EVENTS OF RISE OF HITLER TO POWER.

Q2.ON AN OUTLINE MAP OF INDIA ,LOCATE AND LABELL-

A-HIMALAYAN RANGE

B-NORTHERN PLAINS

C-THAR DESRT

E-DECCAN PLATEAU

F-COASTAL PLAINS

Q3.PREAPARE A COMPARISON TABLE BETWEEN POVERTY AND ANTI-POVERTY MEASURES OF GOVT..

Q4.EXPLAIN ANY FIVE FACTORS OF PRODUCTION WITH EXAMPLES FROM DAILY LIFE.

Q5.MAKE FIVE ASSERTION AND REASON BASED QUESTIONS FROM THE CHAPTER- FOOD SECURITY.

Q6- REVISE ALL THE QUESTIONS ANSWER OF THE EXPECTED CHAPTERS FOR PT-2 EXAM.

Class 9

Biology

Winter break homework

Answer the following question . (50 words)

1. What is crop variety improvement?
2. Define manure. Mention one advantage of using manure.
3. What is irrigation? Name any one modern method of irrigation.
4. What are kharif crops? Give one example.
5. What is mixed cropping?
6. Define pesticides.
7. What is animal husbandry?
8. Mention any two nutrients supplied by fertilizers.
9. What is organic farming?
10. State any two advantages of high-yielding variety (HYV) seeds.

Answer the following. (200-300 words)

1. Explain any three factors for which crop variety improvement is done.
2. Differentiate between manure and fertilizers (any three points).
3. Describe any three modern methods of irrigation.
4. Explain crop rotation and state its importance.
5. What are weeds? Why is weed control necessary?
6. Explain any three methods of crop protection.
7. Describe composite fish culture.
8. Explain the importance of balanced diet for cattle.
9. What are diseases in poultry? Mention any two preventive measures.
10. Explain the role of green manure in improving soil fertility.

Answer these questions. (300-500 words)

1. Explain the various methods of crop variety improvement in detail.
2. Describe different cropping patterns practised in India.
3. Explain the importance of manure and fertilizers in improving soil fertility.
4. Describe modern methods of irrigation and their advantages.
5. Explain different methods of crop protection from pests and diseases.
6. Describe cattle farming and the measures taken for improving cattle productivity.
7. Explain fish production in India, including capture fishing and culture fishing.
8. Describe poultry farming and factors affecting egg and meat production.

Instructions

Complete these in HW copies.

Submit for evaluation after vacation.

Practice these for upcoming examination.

Class 9 (HOLIDAY HOMEWORK)

Chapter 3 – Atoms and Molecules

Explain Dalton's Atomic Theory and write any two limitations.

State and explain the Laws of Chemical Combination with suitable examples.

Differentiate between molecular mass and formula unit mass with examples.

Explain atomicity. How do atoms combine to form molecules? Give examples.

Explain the rules for writing chemical formulae and write three examples.

Chapter 4 – Structure of the Atom

Describe the discovery of electron, proton and neutron with the experiments involved.

Explain Rutherford's α-particle scattering experiment, its observations, and conclusions.

Explain Bohr's Model of an Atom with a neat labelled diagram and postulates.

Explain atomic number, mass number, isotopes and isobars with examples and differences.

What is electronic configuration? State the rules and write the electronic configuration of the first ten elements.

Describe sub-atomic particles with respect to charge, mass and location in an atom.

WINTER BREAK HOLIDAY HOME WORK(SANSKRIT) VI TO IX
हिंदी) शीतकालीन गृह कार्य (कक्षा-षष्ठी)

① चेतक की वीरता, हिन्दमहासागर में छोटा सा हिन्दुस्तान, पेड़ की बात = इन पाठों के प्रश्न उत्तर लिखने व याद करने है।

(2) संज्ञा, सर्वनाम, विशेषण परिभाषा व इनके भेद और उदा. लिखने व याद करने हैं।

(3) पत्र (2) अनुच्छेद (2) निबंध (2) संवाद - (2) लिखने व याद करने हैं।

(शीत कालीन गृह कार्य) कक्षा - 7(संस्कृत)

(1)। ८, ९, १० - पाठे प्रश्नानाम् उत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) लिख, गम् धातु (5) लकारेषु लेखन कण्ठस्थ।

(3) बालक, लता, किम - शब्दरूप लेखनम् कण्ठस्थम्

(4) 8, 9, 10 - पाठे दत्तानि सर्वाणि अव्ययानि शब्दानि लिखित्वा कण्ठस्थं कुर्वन्तु।

(संस्कृत शीतकालीन गृहकार्य -)(अष्टमी)

1) अध्याय 6-12 तः प्रश्नोत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) बालक, बालिका, किम- शब्द रूप लेखनीये कण्ठस्थ करणीय।

(3) उपसर्गाः प्रत्ययाः च - अभ्यासः।

(4)समय, अव्यय , १-५० तः संख्याः लिखितव्याः कण्ठस्थीयाः च।

शीतकालीन गृहकार्य (नवमी) संस्कृत

1 अपठितखण्डाः, पत्राणि, चित्रवर्णनानि, संवादाः, कथासमाप्तिः च। एतेषां सर्वेषां अभ्यासं कुरुत।

(2) अनुप्रयुक्त व्याकरणस्य अभ्यासं कर्तुं

(3) पूर्वप्रश्नपत्राणां अभ्यासं कुर्वन्तु!

संस्कृत शीतकालीन गृहकार्यं षष्ठी।

1)१०, ११, १२ - पाठस्य प्रश्नोत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) पठ, लिख - धातु रूप - (4) लकार में लिखे ||

(3) बालकः, बालिका - शब्दरूपाः - लिखित्वा कण्ठस्थं कुर्वन्तु।

(4) 1से 50 पर्यन्तं गणना - संस्कृते लेखनं कण्ठस्थं च कुर्वन्तु।

Winter Holiday Homework – Class IX

Subject: Artificial Intelligence / Data Literacy

Instructions:

- Attempt all questions.
- Write answers neatly in the AI notebook.
- Case-based answers must be written in complete sentences.

Section A: Multiple Choice Questions (MCQs)

(10 × 1 = 10 Marks)

1. Data literacy refers to the ability to:
   a) Write computer programs
   b) Read, understand, analyze, and use data
   c) Store data only
   d) Play games using data
2. Which of the following is an example of personal data?
   a) Weather report
   b) Mobile number
   c) Traffic signal
   d) School timetable
3. Which data type consists of numbers only?
   a) Qualitative data
   b) Quantitative data
   c) Categorical data
   d) Descriptive data
4. Password protection is related to:
   a) Data collection
   b) Data visualization
   c) Data security
   d) Data preprocessing
5. Which of the following is a source of data?
   a) Sensor
   b) Calculator
   c) Printer
   d) Speaker
6. Removing duplicate values is part of:
   a) Data interpretation
   b) Data preprocessing

c) Data storage
d) Data sharing

7. Probability value always lies between:
   a) −1 and 1
   b) 0 and 1
   c) 1 and 100
   d) −100 and 100

8. Which math concept is used in AI for decision making?
   a) Geometry
   b) Statistics
   c) History
   d) Literature

9. Which tool is commonly used to interpret data?
   a) Bar graph
   b) Keyboard
   c) Mouse
   d) Printer

10. Cyber security mainly protects systems from:
    a) Natural disasters
    b) Cyber-attacks
    c) Power failure
    d) Heat

Section B: One-Line Answer Questions

(10 × 1 = 10 Marks)

21. What is data literacy?
22. Name any one type of data.
23. What is data privacy?
24. Give one example of cyber crime.
25. What is preprocessing of data?
26. What is probability?
27. Name one source of data.
28. What is statistics used for in AI?
29. Write one importance of data.
30. Name one interpretation tool used for data.

Section C: Short Answer Questions (2 Marks Each)

(10 × 2 = 20 Marks)

31. Write two ways to become data literate.
32. Mention two examples of quantitative data.
33. State two best practices of acquiring data.
34. What are two risks related to data privacy?
35. Write two uses of mathematics in AI.
36. Explain data security with two examples.
37. Name two sources of data collection.
38. Write two steps involved in data preprocessing.
39. Mention two applications of statistics in AI.
40. Write two real-life uses of probability.

Section D: Short Answer Questions (3 Marks Each)

(5 × 3 = 15 Marks)

41. Explain the importance of data in Artificial Intelligence.
42. Describe any three types of data with examples.
43. Explain the role of mathematics in understanding AI concepts.
44. What is cyber security? Explain its importance with examples.
45. Explain data interpretation and name three tools used for it.

Section E: Case-Based Questions

(7 × 5 = 35 Marks)

Case 1:

A school collects students' attendance, marks, and health records digitally.

46.

a) Identify the type of data used.
b) Why is data security important here?
c) Suggest two ways to protect this data.

Case 2:

An online shopping website analyzes customer reviews and ratings.

47.

a) What type of data is collected?
b) Name two sources of this data.
c) How does data preprocessing help here?

Case 3:

A weather department predicts rainfall using past data.

48.

a) Which mathematical concept is used?
b) Why is probability important here?
c) Write two benefits of data interpretation.

Case 4:

A bank uses AI to detect fraud transactions.

49.

a) Which AI-related concepts are involved?
b) How does statistics help in this case?
c) Why is cyber security essential?

Case 5:

A student shares personal photos on a public platform.

50.

a) Identify the data privacy issue.
b) Mention two risks involved.
c) Suggest two safety measures.

Case 6:

An AI system removes missing and incorrect values before training.

51.

a) Name this process.
b) Why is it important?
c) Give one example.

Case 7:

An AI-based recommendation system suggests movies based on user interest.

52.

a) What type of data is used?
b) Which mathematical concept helps here?
c) Explain the importance of data in this system.

End of Assignment

🔬 CLASS VIII – SCIENCE

Chapters:

- Ch 8: Nature of matter
- Ch 9: Amazing world of solute solvent and solution

Work to be Done:

1. **Notes:**
    - Definitions, explanations, differences, diagrams
2. **NCERT Exercises:**
    - In-text + End exercise questions
3. **DPPs (Daily Practice Problems):**
    - 10 MCQs
    - 5 Very Short Answer Questions
    - 5 Short Answer Questions (per chapter)

FOR CLASS VIII & XI

1. Create a book of your own design using **StoryJumper** webtool's by giving appropriate book title and pictures.

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

Winter Break Homework – Class VIII (English)

Literature Connection

Read any chapter/short story from NCERT BOOK(POORVI).
Prepare a Character Sketch (100 words).

Vocabulary & Idioms

Collect 10 idioms from newspapers/books.
Use any 5 in sentences.

Writing Skill

Write an article on “A Winter Evening in My Locality” (100 words).

HOLIDAY HOMEWORK(WINTER)

CLASS-8 SUB-SST

Q1.REVISE AND REWRITE THE NOTES OF THE CHAPTERS .

Q2.MAKE A PROJECT WORK ON HOW DID THE BRITISHERS SPREAD THEIR COLONIES-IT'S CAUSES AND CONSEQUENCES.

Q3.SUPPOSE YOU WANT TO OPEN A RESTAURANT.WHAT ARE THE INPUTS AND CAPITAL YOU WILL ADD ON TO DO YOUR START UP ?

Q4.MENTION THE STAGES OF ELECTIONS IN PROPER SEQUENCE AND WRITE DOWN 3 FACTS ABOUT UNIVERSAL ADULT FRANCHISE.

Q5.MARATHAS WERE NOT BORN TO BOW DOWN THEIR HEADS BUT TO RESIST AGAINST MUGHALS.JUSTIFY THE STATEMENT.

Holiday Homework
Winter Vacation

Class- 6 - 7

Q. Make a miniature painting in folk style.

Size: A4 paper, painting size 5 × 5 inch

Farming black (half inch)

Holiday Homework
Winter Vacation

Class : 8

Subject :- Art

Q1. Make a Painting on A4 Size Drawing paper by taking reference of any famous modern artist.

(Medium: watercolour/ Acrylic/ poster color etc)

Make black frame for the same painting

WINTER BREAK HOLIDAY HOME WORK(SANSKRIT) VI TO IX
हिंदी) शीतकालीन गृह कार्य (कक्षा-षष्ठी)

① चेतक की वीरता, हिन्दमहासागर में छोटा सा हिन्दुस्तान, पेड़ की बात = इन पाठों के प्रश्न उत्तर लिखने व याद करने है।

(2) संज्ञा, सर्वनाम, विशेषण परिभाषा व इनके भेद और उदा. लिखने व याद करने हैं।

(3) पत्र (2) अनुच्छेद (2) निबंध (2) संवाद - (2) लिखने व याद करने हैं।

(शीत कालीन गृह कार्य) कक्षा - 7(संस्कृत)

(1)। ८, ९, १० - पाठे प्रश्नानाम् उत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) लिख, गम् धातु (5) लकारेषु लेखन कण्ठस्थ।

(3) बालक, लता, किम - शब्दरूप लेखनम् कण्ठस्थम्

(4) 8, 9, 10 - पाठे दत्तानि सर्वाणि अव्ययानि शब्दानि लिखित्वा कण्ठस्थं कुर्वन्तु।

(संस्कृत शीतकालीन गृहकार्य -)(अष्टमी)

1) अध्याय 6-12 तः प्रश्नोत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) बालक, बालिका, किम- शब्द रूप लेखनीये कण्ठस्थ करणीय।

(3) उपसर्गाः प्रत्ययाः च - अभ्यासः।

(4)समय, अव्यय , १-५० तः संख्याः लिखितव्याः कण्ठस्थीयाः च।

शीतकालीन गृहकार्य (नवमी) संस्कृत

1 अपठितखण्डाः, पत्राणि, चित्रवर्णनानि, संवादाः, कथासमाप्तिः च। एतेषां सर्वेषां अभ्यासं कुरुत।

(2) अनुप्रयुक्त व्याकरणस्य अभ्यासं कर्तुं

(3) पूर्वप्रश्नपत्राणां अभ्यासं कुर्वन्तु!

संस्कृत शीतकालीन गृहकार्यं षष्ठी।

1)१०, ११, १२ - पाठस्य प्रश्नोत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) पठ, लिख - धातु रूप - (4) लकार में लिखे ||

(3) बालकः, बालिका - शब्दरूपाः - लिखित्वा कण्ठस्थं कुर्वन्तु।

(4) 1से 50 पर्यन्तं गणना - संस्कृते लेखनं कण्ठस्थं च कुर्वन्तु।

Kendriya vidyalaya Khariar

Subject – Music

Winter Break 2025-26

Holiday HomeworK for class 1to 8

• LISTEN SONG AND LEARN LYRICS OF MALAYALAM COMMUNITY SONG (जन्मकारिणि भारतम्)

• LEARN LYRICS OF SANSKRIT PRAYER (दयां कृत्वा ही विद्दा या)

FOR CLASS 6 & 7

LIBRARY QUESTION

1. What is e-Library. Give 3 importance of e-library.
2. What are the different types of library. Explain by giving appropriate examples.
3. Write a passage on a topic “My dream country” (100 -150 words)

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

Winter Break Homework – Class VII (English)

Read any one story/prose piece from Poorvi (Already Read).

Write:

Title & Author
New words (5) with meanings
Central message (80–100 words)

Vocabulary Builder

Create a Word Web on the topic “Winter” (minimum 15 words).

Writing Skill

Write a Diary Entry on “A Memorable Winter Morning” (80–100 words).

HOLIDAY HOMEWORK(WINTER)

CLASS-7 SUB-SST

Q.1- REVISE AND REWRITE THE NOTES OF THE CHAPTERS AND IMPORTANT QUESTIONS(AS PER BLUE PRINT) FOR PT-2 EXAM.

Q.2-EXPLAIN THE ELEMENTS OF WEATHER.

Q3.WRITE DOWN TWO CASE BASED QUESTIONS FROM THE AGE OF REORGANISATION AND MAKE ATLEAST 8 MCQS FROM THE PASSAGE.

Q4-WHAT ARE THE MAERITS AND DEMERITS OF USING UPI ,DEBIT CARD AND CREDIT CARDS .

Q5-MAKE A POSTER RELATED TO FUNDAMENTAL RIGHTS.

class 7

Science

Holiday Homework (winter break)

Q1. Explain the three modes of heat transfer—conduction, convection, and radiation. Describe one natural example for each mode.

Q2. Describe the formation of sea breeze and land breeze. Explain how heat transfer plays a role in this phenomenon.

Q3. Explain different methods used to measure time from ancient times to modern days. How has technology improved time measurement?

Q4. Define motion. Explain different types of motion with suitable examples from daily life.

Q5. Describe the process of digestion in humans with the help of a neat, labelled diagram.

Q6. Explain the process of respiration in animals. How do aquatic animals breathe?

Q7. Describe the process of photosynthesis in green plants. Explain its importance to living organisms.

Instruction

Prepare for PT 2 examination.

Do it in HW copy. And submit after vacation for evaluation.

Holiday Homework
Winter Vacation

Class- 6 - 7

Q. Make a miniature painting in folk style.

Size: A4 paper, painting size 5 × 5 inch

Farming black (half inch)

WINTER BREAK HOLIDAY HOME WORK(SANSKRIT) VI TO IX
हिंदी) शीतकालीन गृह कार्य (कक्षा-षष्ठी)

① चेतक की वीरता, हिन्दमहासागर में छोटा सा हिन्दुस्तान, पेड़ की बात = इन पाठों के प्रश्न उत्तर लिखने व याद करने है।

(2) संज्ञा, सर्वनाम, विशेषण परिभाषा व इनके भेद और उदा. लिखने व याद करने हैं।

(3) पत्र (2) अनुच्छेद (2) निबंध (2) संवाद - (2) लिखने व याद करने हैं।

(शीत कालीन गृह कार्य) कक्षा - 7(संस्कृत)

(1)। ८, ९, १० - पाठे प्रश्नानाम् उत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) लिख, गम् धातु (5) लकारेषु लेखन कण्ठस्थ।

(3) बालक, लता, किम - शब्दरूप लेखनम् कण्ठस्थम्

(4) 8, 9, 10 - पाठे दत्तानि सर्वाणि अव्ययानि शब्दानि लिखित्वा कण्ठस्थं कुर्वन्तु।

(संस्कृत शीतकालीन गृहकार्य -)(अष्टमी)

1) अध्याय 6-12 तः प्रश्नोत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) बालक, बालिका, किम- शब्द रूप लेखनीये कण्ठस्थ करणीय।

(3) उपसर्गाः प्रत्ययाः च - अभ्यासः।

(4)समय, अव्यय , १-५० तः संख्याः लिखितव्याः कण्ठस्थीयाः च।

शीतकालीन गृहकार्य (नवमी) संस्कृत

1 अपठितखण्डाः, पत्राणि, चित्रवर्णनानि, संवादाः, कथासमाप्तिः च। एतेषां सर्वेषां अभ्यासं कुरुत।

(2) अनुप्रयुक्त व्याकरणस्य अभ्यासं कर्तुं

(3) पूर्वप्रश्नपत्राणां अभ्यासं कुर्वन्तु!

संस्कृत शीतकालीन गृहकार्यं षष्ठी।

1)१०, ११, १२ - पाठस्य प्रश्नोत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) पठ, लिख - धातु रूप - (4) लकार में लिखे ||

(3) बालकः, बालिका - शब्दरूपाः - लिखित्वा कण्ठस्थं कुर्वन्तु।

(4) 1से 50 पर्यन्तं गणना - संस्कृते लेखनं कण्ठस्थं च कुर्वन्तु।

Kendriya vidyalaya Khariar

Subject – Music

Winter Break 2025-26

Holiday HomeworK for class 1to 8

• LISTEN SONG AND LEARN LYRICS OF MALAYALAM COMMUNITY SONG (जन्मकारिणि भारतम्)

• LEARN LYRICS OF SANSKRIT PRAYER (दयां कृत्वा ही विद्दा या)

FOR CLASS 6 & 7

LIBRARY QUESTION

1. What is e-Library. Give 3 importance of e-library.
2. What are the different types of library. Explain by giving appropriate examples.
3. Write a passage on a topic “My dream country” (100 -150 words)

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

HOLIDAY HOMEWORK(WINTER)

CLASS-6 SUB-SST

Q1. LIST ANY TWO ADVANTAGES AND DISADVANTAGES OF DEMOCRACY.

Q2.REVISE AND WRITE DOWN THE QUESTION ANSWER OF THE CHAPTERS ASSIGNED IN THE BLUE PRINT.

Q3-TAKE A CHART PAPER,DRAW THE VARIOUS LANDFORMS AND MENTION THE FEATURS OF EACH LANDFORMS.

Q4-MAKE 05 ASSERTION AND REASON BASED QUESTIONS FROM THE CHAPTERS- BEGINNING OF INDIAN CIVILIZATION.

Q5.WRITE DOWN SHORT NOTE ON THE FOLLOWINGS-

A-SINDHU-SARASWATI CIVILIZATION

B-TOWN PLANNING

C-TRADE AND COMMERCE DURING HARAPPANS

D-REASONS OF DECLINING

class 6

Holiday Homework (winter break)

1. Explain the working of a clinical thermometer.
2. What precautions should be taken while using a thermometer?
3. Differentiate between clinical thermometer and laboratory thermometer.
4. Describe the water cycle with the help of a diagram.
5. Explain the characteristics of living beings with suitable examples.

Instruction

Prepare for PT 2 examination.

Do it in HW copy. And submit after vacation for evaluation.

Holiday Homework
Winter Vacation

Class- 6 - 7

Q. Make a miniature painting in folk style.

Size: A4 paper, painting size 5 × 5 inch

Farming black (half inch)

Class 6 Mathematics Holiday Homework

Word Problems – Perimeter & Area

1. Find the perimeter of a rectangle of length 12 cm and breadth 5 cm.
2. A square field has a side of 25 m. Find its perimeter.
3. A room is 10 m long and 8 m wide. Find its area.
4. A rectangle has area 72 cm^2 and breadth 6 cm. Find its length.
5. A farmer built a square garden of area 144 m^2. Find the length of its side.
6. Find the cost of fencing a rectangular park (40 m × 20 m) at ₹25 per metre.
7. A square playground has a side 50 m. Find the cost of painting the floor at ₹8 per m^2.

1. Riya ate $\frac{2}{5}$ of a cake and her friend ate $\frac{1}{5}$.
   How much cake did they eat together?
2. A rope is 18 m long. Rohan used $\frac{2}{3}$ of it.
   How much rope was used?
3. A bottle contains 2 L of juice. Seema drinks $\frac{3}{4}$ L.
   How much is left?
4. Amit studies for $\frac{3}{5}$ hour in Maths and $\frac{1}{5}$ in English.
   Total time spent?
5. A ribbon is 12 m long. Salma cuts $\frac{2}{3}$ of it.
   How long piece was cut?
6. A rectangle's length is $\frac{5}{6}$ m and breadth is $\frac{1}{3}$ m.
   Find the area.

✳ Playing With Constructions – Questions

1. Construct a line segment of length 6.4 cm using a ruler.
2. Using a compass, construct a circle of radius 3.5 cm.
3. Construct an angle of 90° using ruler and compass.
4. Construct an angle of 60°, then bisect it. What is the measure of the bisected angle?
5. Draw a line segment AB = 7 cm.
   Using a compass, construct another line segment equal to AB.
6. Construct an angle of 120° using a 60° construction method.
7. Draw a perpendicular bisector of a line segment PQ = 8 cm.
8. Mark a point P outside a line l.
   Construct a perpendicular from P to line l.
9. Draw a line segment XY = 9 cm.
   Construct a triangle XYZ where ∠X = 60° and ∠Y = 45°.

KENDRIYA VIDYALAYA KHARIAR

HOLIDAYS HOME WORK, WINTER BREAK 2025-26,CLASS-VI,SUB-ENGLISH

1. Visit a local vegetable market with your parents and talk to the vendors

selling different vegetables. (Names of the vegetables, price, where from they bring them , how much profit they make , how they feel about their business etc) write your experience in the form a paragraph. Take photographs and paste pictures of your visit to the

vegetable market , things you saw and purchased from there.

2. Choose 10 words from the lesson A BOTTLE OF DEW and make sentences of your own using them.

3. Read two Stories of your interest and write 3 things that you learnt from

reading those stories.

4. Write the definition of Noun and pronoun , adjective and adverb with

their kinds. Give examples for each kind.

KV KHARIAR

WINTER BREAK HOLIDAY HOME WORK(SANSKRIT) VI TO IX
हिंदी) शीतकालीन गृह कार्य (कक्षा-षष्ठी)

① चेतक की वीरता, हिन्दमहासागर में छोटा सा हिन्दुस्तान, पेड़ की बात = इन पाठों के प्रश्न उत्तर लिखने व याद करने है।

(2) संज्ञा, सर्वनाम, विशेषण परिभाषा व इनके भेद और उदा. लिखने व याद करने हैं।

(3) पत्र (2) अनुच्छेद (2) निबंध (2) संवाद - (2) लिखने व याद करने हैं।

(शीत कालीन गृह कार्य) कक्षा - 7(संस्कृत)

(1)। ८, ९, १० - पाठे प्रश्नानाम् उत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) लिख, गम् धातु (5) लकारेषु लेखन कण्ठस्थ।

(3) बालक, लता, किम - शब्दरूप लेखनम् कण्ठस्थम्

(4) 8, 9, 10 - पाठे दत्तानि सर्वाणि अव्ययानि शब्दानि लिखित्वा कण्ठस्थं कुर्वन्तु।

(संस्कृत शीतकालीन गृहकार्य -)(अष्टमी)

1) अध्याय 6-12 तः प्रश्नोत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) बालक, बालिका, किम- शब्द रूप लेखनीये कण्ठस्थ करणीय।

(3) उपसर्गाः प्रत्ययाः च - अभ्यासः।

(4)समय, अव्यय , १-५० तः संख्याः लिखितव्याः कण्ठस्थीयाः च।

शीतकालीन गृहकार्य (नवमी) संस्कृत

1 अपठितखण्डाः, पत्राणि, चित्रवर्णनानि, संवादाः, कथासमाप्तिः च। एतेषां सर्वेषां अभ्यासं कुरुत।

(2) अनुप्रयुक्त व्याकरणस्य अभ्यासं कर्तुं

(3) पूर्वप्रश्नपत्राणां अभ्यासं कुर्वन्तु!

संस्कृत शीतकालीन गृहकार्यं षष्ठी।

1)१०, ११, १२ - पाठस्य प्रश्नोत्तराणि लिखित्वा कण्ठस्थं कुर्वन्तु।

(2) पठ, लिख - धातु रूप - (4) लकार में लिखे ||

(3) बालकः, बालिका - शब्दरूपाः - लिखित्वा कण्ठस्थं कुर्वन्तु।

(4) 1से 50 पर्यन्तं गणना - संस्कृते लेखनं कण्ठस्थं च कुर्वन्तु।

Kendriya vidyalaya Khariar

Subject – Music

Winter Break 2025-26

Holiday HomeworK for class 1to 8

• LISTEN SONG AND LEARN LYRICS OF MALAYALAM COMMUNITY SONG (जन्मकारिणि भारतम्)

• LEARN LYRICS OF SANSKRIT PRAYER (दयां कृत्वा ही विद्दा या)

Class 3, 4 & 5

LIBRARY QUESTIONS

1. Give 5 importance points of library.
2. What are the different types of Library?
3. Write a short paragraph on a topic "**My Classroom**" (50-100 words)

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

Holiday Home Work
Winter Vacation

Class: 3 - 5

Questions

1.Make a toy using waste clothes and cotton wool.

2.Make any craft of your interest
(Suggested materials:- Plywood, Clay, Cardboard, Wood, Paper, Plastic etc.)

केन्द्रीय विद्यालय खरियार

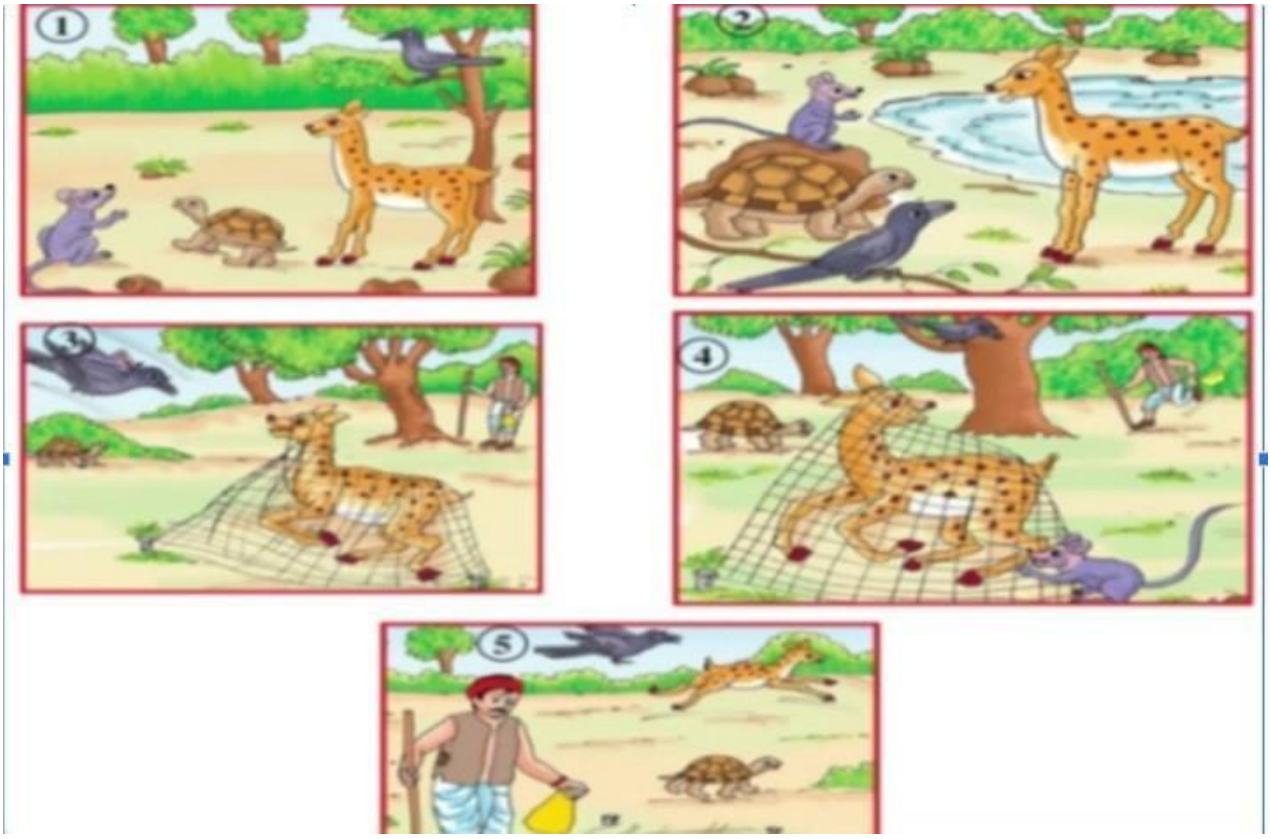
शीतकालीन अवकाश गृहकार्य (सत्र - 2025-26)

विषय - हिन्दी

कक्षा - 5

निम्नलिखित प्रश्नों के उत्तर लिखिए:-

1. **अपनी पुस्तिका में 5 पृष्ठ सुलेख लिखिए ।**
2. **अपनी पाठ्यपुस्तक ' वीणा' के विभिन्न पाठ से प्रतिदिन एक पृष्ठ पढ़िए ।**
3. **कहानी लेखन : चित्र देखकर उसके बारे में 10 पंक्तियाँ लिखिए।**



4. **भारत के 10 ऐतिहासिक स्मारकों के चित्र चिपकाकर उनके नाम व बनाने वाले राजा/ शासक का नाम लिखिए तथा किसी एक ऐतिहासिक स्मारक के बारे में कुछ पंक्तियां लिखिए ।**
5. **अपनी पुस्तिका में 10 नए कठिन शब्द व उनके अर्थ लिखिए।**

नोट:- आवधिक परीक्षा के पाठ्यक्रम को याद कीजिए।

KENDRIYA VIDYALAYA KHARIAR

HOLIDAYS HOME WORK, WINTER BREAK 2025-26,CLASS-V,SUB-ENGLISH

1. Write one-page beautiful handwriting daily for 5 days.

2.Frame at least 10 questions of English grammar of your own**.(Do not copy from any other source)**

3.Write a letter to friend about your preparation for PT-2 exam.

4.Read at least 2 moral stories (Not from your textbook).Write the title of your stories and also the moral you learn from those stories.

Note: The homework should be done in English note book by filling the index page .

K.V KHARIAR

KENDRIYA VIDYALAYA KHARIAR

WINTER BREAK HOLIDAY HOMEWORK-2025-26

CLASS-V SUB-TWAU

Q 1. Write ten lines/short note about Andaman & Nicobar Island..

Q 2. Write the name of any twenty National park/Wild life centaury of India and name the state where it is located.

Q 3. Draw the map of India and locate the following.

Kolkata
Sundarban
Vijaya Puram
Western ghat
Capitals of seven sister state

Q 4. What is green school ? How can we make our school a Green school ?

Q 5. Write the name of classical dances and its state of India.

Kendriya vidyalaya Khariar

Subject – Music

Winter Break 2025-26

Holiday HomeworK for class 1to 8

• LISTEN SONG AND LEARN LYRICS OF MALAYALAM COMMUNITY SONG (जन्मकारिणि भारतम्)

• LEARN LYRICS OF SANSKRIT PRAYER (दयां कृत्वा ही विद्दा या)

Class 3, 4 & 5

LIBRARY QUESTIONS

1. Give 5 importance points of library.
2. What are the different types of Library?
3. Write a short paragraph on a topic "**My Classroom**" (50-100 words)

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

Holiday Home Work
Winter Vacation

Class: 3 - 5

Questions

1.Make a toy using waste clothes and cotton wool.

2.Make any craft of your interest
(Suggested materials:- Plywood, Clay, Cardboard, Wood, Paper, Plastic etc.)

केन्द्रीय विद्यालय खरियार

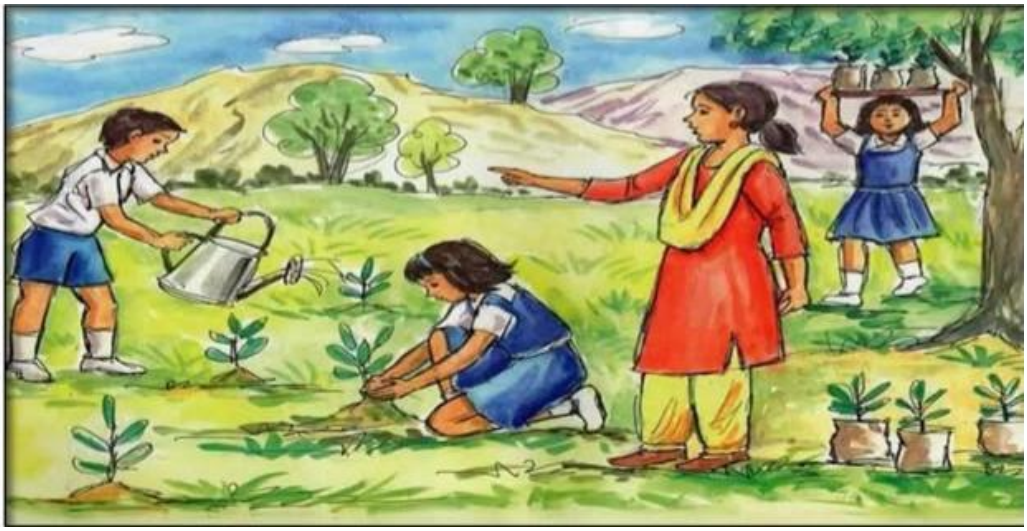
शीतकालीन अवकाश गृहकार्य (सत्र - 2025-26)

विषय - हिन्दी

कक्षा - 4

निम्नलिखित प्रश्नों के उत्तर लिखिए:-

1. **अपनी पुस्तिका में 5 पृष्ठ सुलेख लिखिए।**
2. **अपनी पाठ्यपुस्तक 'वीणा' के एक पृष्ठ को प्रतिदिन पढ़िए ।**
3. **कहानी-लेखन : चित्र को देखकर उसके बारे में 10 पंक्तियाँ लिखिए।**



4. **अपने मित्र को नए वर्ष की शुभकामनाएँ देते हुए एक पत्र लिखिए व एक कार्ड बनाइए ।**
5. **अपनी पुस्तिका में 10 नए कठिन शब्द व उनके अर्थ लिखिए।**

नोट:- आवधिक परीक्षा के पाठ्यक्रम को याद कीजिए।

KENDRIYA VIDYALAYA KHARIAR

HOLIDAYS HOME WORK, WINTER BREAK 2025-26,CLASS-IV,SUB-ENGLISH

1. Write one-page beautiful handwriting daily for 5 days.

2.Ask at least 10 questions to your father/mother by using 'WH' words like why, what, when, how and where? Write the questions and answers in your copy by adding the title, **Questions To My Father/Mother.**

3.Draw decorative picture of your dream house and write at least five sentences about it.

4.Read at least 2 moral stories (Not from your textbook).Write the title of your stories and also the moral you learn from those stories.

Note: The homework should be done in English note book by filling the index page .

K.V KHARIAR

KENDRIYA VIDYALAYA KHARIAR

WINTER BREAK HOLIDAY HOMEWORK-2025-26

CLASS-IV SUB-MATHS

Q 1. Make a Calendar of year 2026 with beautiful design.

Q 2. Draw the picture of clocks and show the following times.

04.35 11.10 03.00 05.50 12.00

Q 3. Calculate the age of your and your family members as on 31.03.2026.

Q 4. Write your name and your family members name and its mirror image.

Q 5. Collect a money deposit slip from SBI bank and fill the slip and paste in your copy.

Kendriya vidyalaya Khariar

Subject – Music

Winter Break 2025-26

Holiday HomeworK for class 1to 8

• LISTEN SONG AND LEARN LYRICS OF MALAYALAM COMMUNITY SONG (जन्मकारिणि भारतम्)

• LEARN LYRICS OF SANSKRIT PRAYER (दयां कृत्वा ही विद्दा या)

Kendriya Vidyalaya Khariar

Winter break homework

Class III

Hindi

1. प्रतिदिन हिंदी पुस्तक का एक पृष्ठ पढ़िए।
2. 5 पृष्ठ सुलेख लिखें।
3. भारत के प्रमुख पुरस्कारों के नाम लिखिए तथा उनके चित्र बनाइए।
4. पेड़ों से हमें क्या क्या प्राप्त होता है? सूची बनाइए।
5. 5 मुहावरे और उनके अर्थ लिखिए।

Class 3, 4 & 5

LIBRARY QUESTIONS

1. Give 5 importance points of library.
2. What are the different types of Library?
3. Write a short paragraph on a topic "**My Classroom**" (50-100 words)

WINTER BREAK HOLIDAYS HOMEWORK

PHYSICAL & HEALTH EDUCATION

CLASSES III TO XI

- **Learn rules of following games.**
    - **Kabaddi**
    - **Kho-Kho**
    - **Football**
    - **Cricket**
- **Practice Yoga on daily basis.**
- **Play Indigenous sports.**

Holiday Home Work
Winter Vacation

Class: 3 - 5

Questions

1.Make a toy using waste clothes and cotton wool.

2.Make any craft of your interest
(Suggested materials:- Plywood, Clay, Cardboard, Wood, Paper, Plastic etc.)

KENDRIYA VIDYALAYA KHARIAR

HOLIDAYS HOME WORK, WINTER BREAK 2025-26,CLASS-III,SUB-MATH

1. Observe the given figure carefully and answer the questions based on it.



If one more ball is added on the left of ball 1, then how many balls are on the left of Ball 6?

(A) 6 (B) 5 (C) 7 (D) 4

---

2. If Pawan has baseball practice every fourth day in the month of March, starting with March 1, then what date will be his last day of practice for the month?

(A) March 28

(B) March 29

(C) March 30

(D) March 31

MARCH						
S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

---

3. Komal built a birdhouse at summer camp. What shape is the piece of wood that was cut out to make the door of her birdhouse?

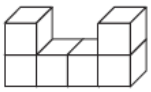


(A) Triangle (B) Square

(C) Circle (D) Rectangle

---

4. How many cubes are there in the given figure?



(A) 6 (B) 5

(C) 7 (D) 4

---

5. Tina shades in 3 parts on a game board. What fraction of the game board is shaded?

Game Board



(A) 3/6 (B) 3/5

(C) 3/3 (D) 6/3

---

6. What is the standard form of 7,000 + 800 + 20 + 5?

(A) 7,285 (B) 7,825 (C) 7,852 (D) 7,528

---

7. 8 × 9 = __?__ + 9 + 9. The missing number is ___.

(A) 54 (B) 45 (C) 43 (D) 34

---

8. Tanya started watching television at 8 : 47 p.m. She decided to go to bed 1 hr 40 mins later. At what time did she go to bed?

(A) 10 : 27 p.m. (B) 10 : 17 a.m. (C) 9 : 27 p.m. (D) 9 : 27 a.m.

---

9. The product of a number and 6 is 240. The number is _____.

(A) 40 (B) 80 (C) 144 (D) 1440

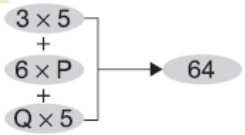
10. Sara and 3 of her friends together made a poster. They drew 8 rows of squares with 6 squares in each row. How many squares did Sara and her friends draw on the poster?
(A) 48 (B) 42 (C) 40 (D) 17

11. Class-3 students went to a theatre in 8 buses. Each bus took 45 students. How many students went to the theatre?
(A) 320 (B) 360 (C) 380 (D) 3240

12. Some friends collected seven hundred fourteen stamps. Which of the following options represents the number of stamps?
(A) 704 (B) 714 (C) 740 (D) 741

13. If Rizvan sells 479 eggs each day, then how many eggs will he sell in a week?
(A) 486 (B) 2833 (C) 2838 (D) 3353

14. Look at the given number bond.
Q is 1 more than P.
Then, P + Q = _____.



(A) 1 (B) 5 (C) 6 (D) 9

15. Find the value of ★.



(A) 11 (B) 16 (C) 20 (D) 14

KENDRIYA VIDYALAYA KHARIAR

WINTER BREAK HOLIDAY HOMEWORK-2025-26

CLASS-III SUB-TWAU

Q 1. List the following (any six)

(a) Name of some containers used to store water

(b) Different sources of water

(c) Uses of water

Q 2. Name the food items that are rich in

(a) Carbohydrate :-

(b) Vitamins ;-

(c) Protein :-

Q 3. How can we stay healthy ? Write any five points.

Q 4. Use these Alphabets and form the names of games

C T E A B I R P K S F O

H M G L N U W D

(a) Indoor games :-

(b) Field games :-

Q 5. Write the names of any two

(a) Leaves we eat :-

(b) Roots we eat :-

(c) Stems we eat :-

(d) Seeds we eat :-

(e) Fruits we eat :-

Kendriya vidyalaya Khariar

Subject – Music

Winter Break 2025-26

Holiday HomeworK for class 1to 8

• LISTEN SONG AND LEARN LYRICS OF MALAYALAM COMMUNITY SONG (जन्मकारिणि भारतम्)

• LEARN LYRICS OF SANSKRIT PRAYER (दयां कृत्वा ही विद्दा या)

Winter Vacations Homework

Class – II

Subject – English

1. ***Write the name of any 5 healthy and 5 unhealthy food items in your English notebook. Draw/Paste their pictures.***
2. ***Craft – Make a "dustbin" using your own creative ideas.***
3. ***Learn Chapter 9 – My Name and Chapter 10 The Crow for Cycle Test 6.***
4. ***Do 5 pages handwriting in your English handwriting notebook.***
5. ***Read 1 page of your English book daily.***

KENDRIYA VIDYALAYA KHARIAR

WINTER VACATION HOMEWORK

SUBJECT – MATHS

CLASS –2

1. Craft - Make a clock using your own creative ideas.
2. Trace the coins of ₹1, 2, 5, 10 and 20 in your Maths notebook.
3. Paste the printout of 10, 20, 50, ₹100 and 500 (back side) in your Maths notebook. Also write the name of the motifs given at the back of each note.

Example – 10 rs. Note - Konark Sun Temple

4. Revise Unit 9 - Which Season Is It? For Cycle Test -6.
5. Visit a market during your vacations and purchase any 5 items of your use. Write the name of the things that you have purchased along with their price. Do the addition of the prices and write how much total money you have spent.

FOR CLASS – II

GENERAL KNOWLEDGE

1. Which famous temple is located in Puri?
2. Which festival is famous in Puri with big chariots?
3. Which dance form is famous in Odisha?
4. What is the main language spoken in Odisha?
5. Which famous lake is home to many birds in Odisha?
6. What is the name of the famous beach in Puri?
7. Which metal is Odisha rich in?
8. What is the old name of Odisha?
9. Which river is the longest river of Odisha?
10. What is the famous national park of Odisha known for crocodiles?
11. Which crop is mainly grown in Odisha?

LIBRARY QUESTIONS

1. Give 5 importance points of library.
2. What are the different types of Library?

Holiday Homework
Winter Vacation

Class 1&2

Q.

1. Make a New Year card for your friends and teachers.
2. Make a creative Christmas card.
3. Make a drawing on the topic “ Winter Season”.

Winter Vacations Homework

Class – II

Subject – Maths

1. Craft – Make a clock using your own creative ideas.
2. Trace the coins of ₹1, ₹2, ₹5, ₹10 and ₹20 in your maths notebook.
3. Paste the printout of ₹10, ₹20, ₹50, ₹100 and ₹500 (back side) in your maths notebook. Also write the name of the motifs given at the back of each note. Example - ₹10 note – Konark Sun Temple
4. Revise Unit 9 – Which Season Is It? For Cycle Test – 6.
5. Visit a market during your vacations and purchase any 5 items of your use. Write the name of the things that you have purchased along with their price. Do the addition of the prices and write how much total money you have spent

Kendriya vidyalaya Khariar

Subject – Music

Winter Break 2025-26

Holiday HomeworK for class 1to 8

• LISTEN SONG AND LEARN LYRICS OF MALAYALAM COMMUNITY SONG (जन्मकारिणि भारतम्)

• LEARN LYRICS OF SANSKRIT PRAYER (दयां कृत्वा ही विद्दा या)

Winter Vacations Homework

Class – II

Subject – English

1. Write the name of any 5 healthy and 5 unhealthy food items in your English notebook. Draw/Paste their pictures.
2. Craft – Make a "dustbin" using your own creative ideas.
3. Learn Chapter 9 – My Name and Chapter 10 The Crow for Cycle Test 6.
4. Do 5 pages handwriting in your English handwriting notebook.
5. Read 1 page of your English book daily.

Winter Vacations Homework

Class – II

Subject – Hindi

1. पाठ 18 – शेर और चूहे की दोस्ती पर आधारित गतिविधि - अपने प्रिय मित्र की तस्वीर अपनी हिंदी पुस्तिका में चिपकाएँ, उनका नाम लिखें तथा आप उनके साथ क्या-क्या करते हैं, इस पर पाँच वाक्य लिखें।
2. अपनी हिंदी पुस्तिका में 1 से 25 तक गिनती लिखें तथा उसे याद करें।
3. Cycle Test – 6 के लिए पाठ 17 – बरसात और मेंढक, पाठ 18 – शेर और चूहे की दोस्ती व पाठ 19 – आउट याद करें।
4. अपनी हिंदी सुलेख पुस्तिका में 5 पृष्ठ सुलेख लिखें।
5. अपनी हिंदी पुस्तक का 1 पृष्ठ प्रतिदिन पढ़ें ।

Kendriya Vidyalaya Khariar

Winter Break Holiday Homework

Class 1

हिन्दी

प्रश्न 1.जन्मदिन पर पेड़ लगाओ कविता याद करके सचित्र कॉपी में लिखें।

प्रश्न 2. पेड़ हमें क्या-क्या देता है। सचित्र लिखें।

प्रश्न 3. 5 पेज सुलेख लिखें।

प्रश्न 4. 5 त्योहारों के नाम लिखिए और चित्र बनाइए/ चिपकाइये।

प्रश्न 5. हवा कविता याद करें।

MATHS

Q 1. Learn Tables from 2 to 6 and Number Names From 1 to 100.

Q 2. Complete Page No. 100 to 104 in book.

Q 3. Write and paste your favourite food items you eat in the winter and in summer season in your notebook.

Q 4. Write four things related to all the four seasons:

Summer

Monsoon

Winter

Spring

Q5. Make your own currency of 10,20 ,50,100,200,and 500 notes using paper.

WINTER VACATION HOME-WORK, 2025

FOR CLASS – I

General Knowledge

1. What is the capital of Odisha?
2. What is the state animal of Odisha?
3. What is the state bird of Odisha?
4. What is the state flower of Odisha?
5. What is the state tree of Odisha?

LIBRARY QUESTION

1. What is library.

2. What are the different resources available in the library.

Holiday Homework
Winter Vacation

Class 1&2

Q.

1. Make a New Year card for your friends and teachers.
2. Make a creative Christmas card.
3. Make a drawing on the topic “ Winter Season”.

Kendriya vidyalaya Khariar

Subject – Music

Winter Break 2025-26

Holiday HomeworK for class 1to 8

• LISTEN SONG AND LEARN LYRICS OF MALAYALAM COMMUNITY SONG (जन्मकारिणि भारतम्)

• LEARN LYRICS OF SANSKRIT PRAYER (दयां कृत्वा ही विद्दा या)

Winter Vacations Homework

Class – I

Subject – English

1. Write the name of any 10 flowers in your English notebook and paste their pictures.
2. Do "Fun with pictures" (Page 84 and 85) , Exercise A Let Us Draw and Exercise Let Us Write (Page 94 and Page 95) in your English book.
3. Learn Chapter – "A Farm" and Chapter - "Animals and Birds" for Cycle Test – 6.
4. Do 5 pages handwriting in your English handwriting notebook.
5. Draw any 1 fruit and 1 vegetable on a white A4 sheet and do thumb painting in it. Paste the sheet in your English notebook. Note – Draw the fruit and vegetable on separate sheets.