WINTER HOLIDAY HOMEWORK

SESSION 2023-24

CLASS-9

SCIENCE:

1) Make a list of Kharif and Rabi crops cultivated in your state.

2) (i) Draw labelled diagram of plant and animal cell, different types of plant and animal tissues. Also write a shot note on them.

3) Complete the activity in your practical file: Verification of the Archimedes' principle i.e. verify up-thrust acting on a body is equal to the weight of liquid displaced by the body.

4) Write similarities and differences between evaporation and vaporization. Also state the factor on which evaporation depends?

5) Solve five numerical from every chapter of physics.

6) Experiment in practical file: Determine the density of solid (denser than water) by using a spring balance and a measuring cylinder.

7) Study the contribution of different scientist in giving different model of an atom. Also state their drawbacks.

8) Define the following with examples: i) element ii) compounds iii) molecules iv) ions v) atomicity   vi) valency vii) Isotopes viii) Isobars

9) Draw a valency table for negative and positive ions and learn it. Using this table write a molecular formula of any 20 compounds and write their chemical name and molecular mass.

10) Make a 3-D electron dot model of following two atoms (i) C   (ii) Ca

11) Important:Revise all chapters for annual exam.

1. PROJECT TOPIC :

I. **Create a PythonProgram to create a list of at least 5 famous Food items of Puducherry.**

II. **Create a Python Program that describes a list showing 3 major languages of Puducherry.**

Instructions-Project to be done in Ruled Sheets. Mention School Name, Your Name, Class and Topic on first page of your project and submitted in Stick file.

2. Write the following Python Programs:

Instructions-Write all the given Python programs in AI Practical File. Program output to be written with Pencil only. Practical file should be completely covered and presentable.

1. **Write a python program to add the odd numbers up to a given value N and print the result.**

2. Write a python to print table of 5.

3. Write a python program to check if a given number is an Armstrong number.

Note: An Armstrong number is a number that is equal to the sum of cube of its digits. For example- 123, 223, 370

4. Write a python program to print Fibonacci series first 10 elements like 0 1 1 2 3 5 8 5. Write a python program to accept a number and display whether the number is   Palindrome or not.

6. Write a python program to accept a number and display whether the given "String" is Palindrome or not.

7. Write a python program to count the number of Vowels in the given String.

8. Write a python program using While loop that asks the user for a number,and prints a countdown from that number to 0.

9. Write a python script to print the following pattern:

4

4   4

4   4   4

10. Write a python program using For loop that calculates exponentials. Your program should ask for base and exponential from the user.

INFORMATION TECHNOLOGY

Do the following questions in a Practical File. Write the steps on the right-side page and paste the coloured printout of the output on the left page.

Objective: Using various commands to create styles in OO Writer.

Task: Type a paragraph with at least 100 words and create below given styles as instructed:

1.Heading: Font name: Font name: Times New Roman, Size: 24 , Colour: Red. Give the style

name: Dream Heading (Use create style from selection command to create style)

2.Paragraph: Apply Style Text Body from the Style Gallery

3.Quote: Font Name: Broadway, Size:16, Colour: Blue, Alignment: Center. Give the style

name: DreamQuot

Task 1: Create a worksheet to maintain your monthly expenses on stationery. To calculate it must have the following headings S. No., Items, price and Quantity. Find the total for each heading by using the formulas. Take out the print out and paste it.

Task 2: Create attendance sheet of 10 days for 15 students of class 9thusing spreadsheet software.

Task 3: Create your class 9th Report Card using MS Excel.

Task 4:Create a presentation in MS-Power Point on the topic – "Sustainable Development Goal – Zero Hunger". Presentation should have 5-8 slides. Printout of the slides to be pasted in file.

Task 5:Create a presentation in MS-Power Point on the topic – "Fundamentals of Computers". Presentation should have 5-10 slides. Printout of the slides to be pasted in file.

ENGLISH

INSTRUCTION : Do Question 2 in A4 sheets / coloured papers OR in soft copy in computer and submit the print outs to your subject teacher. Q1. Students have to make PPT on Comparative study of cuisines, costumes, historical places, music, art and festivals of Uttarakhand & Puducherry. PPT must includes 10-15 slides with audio description. One group includes five students. Kindly check your group given below;

Rollno

Group A- 1-5

Group B- 6-10

Group C- 11-15

Group D- 16-20

Group E - 21-25

Group F - 26-30

Group G- 31-35

Group H- 36-40

Group I- 41-45

Group J- 46-50

Note-

1.First slide includes topic "Comparative Study of Culture of Puducherry & Uttarakhand", name of the school, session, submitted to and submitted by.

2.First slide is followed by Acknowledgement, introduction of Art integration, main content of project, conclusion and bibliography.

3.Submit your respective projects latest by 16th January ,2024

Q2. Make your profile by using the following hints :

a.Name , Date of birth (also paste or draw your picture)

b. Information about your family

c. Your friends

d. Your interests and hobbies

e. Your strengths and weakness

f.Your aim in life Q3. Revise the syllabus for upcoming Annual exams

MATHS

1. **LAB ACTIVITIES:**

(a) **To obtain the formula for the surface area of a sphere experimentally .**

(b) **To verify that the opposite angles of a cyclic quadrilateral are supplementary.**

(c) **To verify that the angles in the same segment of a circle are equal.**

(d) **To verify that the angle subtended by an arc of a circle is double the angle subtended by it any point on the remaining part of a circle.**

(e) **To form a cone from a sector of a circle and to find the formula.**

• **The above mentioned activities to be done in the lab manual**

• **Proper steps of working to be shown for each activities.**

2.   ART INTEGRATED PROJECT- UTTARAKHAND PAIRED WITH PUDUCHERRY

Make an art integrated Project pairing Uttarakhand with Puducherry by including the following domains

(a)   Population comparison and its statistical representations.

(b)   Number of districts / domains and its statistical representations

(c)   Languages spoken in both states and their pie chart representations

(d)   Famous architecture and heritage places and their trigonometric applications in finding height and distance .

•   Do the art integration project in the well decorated file mentioning font page details, certificate, Acknowledgement, about Uttarakhand and Puducherry and conclusion.

SOCIAL SCIENCE

1.   Project file on the topic"the rise of commercial forestry and "rebellion in the forest"

2.   Completion of written work, topics: Population, working of institutions, democratic rights.

HINDI

1)   नीचे दिए गए विषयों में से किसी एक विषय पर स्वरचित कविता/ लेख A4 शीटपर लिखें।

(i)मोबाइल की दुनिया

(ii)आज का विद्यार्थी

(iii)बचपन की यादें

2)   निर्देशानुसारकरें :-

(i)शीतकालीन अवकाश में किसी कारणवश छात्रावास से घर ना जा सकने के लिए अपनी माता कोपत्रलिखिए।

(ii)"मेरे सपनों का भारत" विषयपर 80-100 शब्दोंमेंअनुच्छेदलिखिए।

3) पूर्वपठितपाठ्यक्रमकोयादकीजिए।

नोट-प्रश्न2हिंदीव्याकरणकीपुस्तिकामेंलिखें।