

# Holiday homework class 10<sup>th</sup>

## **Chemistry**

- Write the given

Chemistry practicals in your practical file.

- Solve the exercise of chapter 4 and 5 C in your fair notebook.

## **Physics**

Solve the numericals of Ch.3 Machines and do them in your fair register.

## **Biology**

Complete 10 experiments given below, in Biology practical file of X class.

Don't colour the diagrams. Use only pencil to draw diagrams. The diagrams should be neat & well labelled. Take care of the hand writing.

Follow the instructions given in the class, for writing the comments & drawing the diagrams.

1. An experiment to study various stages of mitosis in a plant or an animal cell.
2. An experiment to demonstrate unequal rate of transpiration from two surfaces of a dicot leaf.
3. An experiment to demonstrate that Oxygen is produced during photosynthesis in a green plant.
4. An experiment to prove that sunlight is necessary for the process of photosynthesis.
5. An experiment to demonstrate the process of osmosis.
6. An experiment to study the structure of human heart.
7. An experiment to study the structure of human kidney.
8. An experiment to study the structure of human brain.
9. An experiment to study the structure of human eye.
10. An experiment to study the structure of human ear.

## **History/civics**

Prepare a project of 40 pages in the practical file on any one of the topics

1. Any one president of India till date
2. Highlight the Work and achievements of Nobel laureate Malala Yousafzai or Kailash Satyarthi
3. Prepare a report on the contribution of anyone agency of the UNO: UNESCO,WHO and UNICEF

Last date for the submission: 15th July

## Geography

Prepare a Project File of 40 pages on any one topic given below:-

1. Wildlife Conservation
2. Development of Tourism in India
3. Transport in India
4. Need for Industrialization in India.

## Maths

1. Comparative newspaper coverage of different items.
2. Survey of various types of Bank accounts, rates of interest offered.
3. Planning a home budget.
4. Conduct a survey in your locality to study the mode of conveyance/Price of various essential commodities/favorite sports. Represent the data using a bar graph/histogram and estimate the mode.
5. To use a newspaper to study and report on shares and dividends.
6. Take a square sheet of paper of side 10cm. Four small squares are to be cut from the corners of the square sheet and then the paper folded at the cuts to form an open box. What should be the size of the square cut so that the volume of the open box is maximum?
7. Take an open box, four set of marbles (ensuring that marbles in each set are of the same size) and some water. By placing the marbles and water in the box, attempt to answer the question: do larger marbles or smaller marbles occupy more volume in a given space?

Select any two assignments, Total number of pages not more than 25(count both sides). Use drawing file with white single line pages, Cover the file with white sheet only.

Last day to submit the Mathematics Project is 15 July 2023.

## English

All work should be done in proper project file.

File should be properly covered,neatly,decorated and covered with cellophane transparent sheet.

The work should be done in proper sequence given below-

Acknowledgement

Index

English Literature

1. Character sketch of either Portia or Shylock.
- 2.Paraphrase of any one poem of your syllabus.

# English Language

1.Speech of any famous personality.

2.Book review OR Film review.

Note :- The matter should be well supported by the pictures available on the internet.

# Computer

Write the following programs in your class work register.

Q1- Write a program to input a real number and round off to the two places of decimal and display the answer.

INPUT 3.1468

OUTPUT 3.15

Q2-Write a program to simulate the following process –

The game of dice is to be simulated for two players each player gets a chance to throw his dice and the value is added to his points, this process continues alternatively until any players added point become 20 and is declared the winner.

Q3-Write a program to print all 3-digit prime palindromes.

Q4-You can multiply two numbers 'm' and 'n' by repeated addition method.

For example , $5*3=15$  can be performed by adding 5 three times  $=5+5+5=15$

Similarly, successive subtraction of two numbers produces 'Quotient' and 'Remainder 'when a number' a' is divided by 'b'(a>b).

For example , $5/2=$  Quotient = 2 and Remainder = 1

Follow steps shown below –

Process	result	counter
5-2	3	1
3-2	1	2

Sample Output – The last counter value represents 'Quotient'=2

The last result value represents 'Remainder '= 1

Write a program to accept two numbers. Perform multiplication and division of the numbers as per the process shown above by using switch case statement.

Q5 – Write a program to input a number. Calculate its square root and cube root .Finally ,display the result by rounding it off.

Sample output -5

Square root of 5 = 2.2360679

Rounded form=2

Cube root of 5 = 1.7099759

Rounded form = 2

## Economics

### Project 1- Demand & Elasticity of Demand

Study any 2 items of each category (Necessity, Comfort & Luxury) and furnish the following information in the project:

1. Acknowledgement
2. Index
3. Introduction- Demand and Elasticity of Demand
4. Differentiate between- Movement along demand curve and Shifts in the demand with practical examples.
5. Degrees of Price Elasticity of demand
6. Prepare a list of price of the 10 items over a period of 4 months and mention the change that occurred in the demand
7. Classify the items on the basis of elasticity of their demand
8. Conclusion- factors that influenced the demand of the items listed by you
9. Bibliography

### Project 2- Banking

Meaning –Bank(Central Bank and Commercial Banks)

1. Functions of both the banks
2. Procedure to open a bank account(Current /Saving,RD,Fixed and PPF account)
3. Difference between RD, FD, Savings deposit and Current account
4. Payments Bank (atleast 4)
5. Merits & Demerits of Payments Bank
6. Conclusion-Precautions for using Payments Bank

## 7. Bibliography

Note-

1. Use only white interleave pages
2. Compile both the projects in one project file
3. Use white sheet or chart paper and cellophane sheet to cover the project 4. Use pictures, graphs, etc. Wherever necessary.
5. Use only black or blue ink in the project. Avoid colours like-red,pink, orange and green for any sort of work.
6. No. Of pages per project- Min. 15, Max. 30
7. Date of submission – 30<sup>th</sup> October 2023.

## Commercial application

1. *Make a report on the new forms of markets and marketing such as tele-markets (marketing through phones), home-shopping (catalogues like Burlington's, etc.), Direct marketing (example Eureka-Forbes). What is their relevance in near future and why?*
2. *Study five different advertisements in any one media (print, television, audio) of the FMCG (fast moving consumer goods) such as Coke, Pepsi, lux, Surf, Tide, etc. and explain their positive and negative points.*
3. *Study the working of the commercial banks in India by standing the working of the branch office of any Public sector commercial bank such as Canara bank, SBI, Bank of Baroda, etc.*
4. Study the working of the Public relations department of a mid-sized firm operating in the media sector.

Pages to be included in a project

- ☐ Acknowledgement
- ☐ Index
- ☐ Introduction
- ☐ Content
- ☐ Conclusion
- ☐ Bibliography

🔍 Remark

Note:

All topics are to be compiled in a drawing file which has to be covered with white sheet and cellophane sheet.

Submission date – 31st July 2023 – 3rd August 2023

Page limit – 5 to 8 pages for each topic

## **Hindi Project (हिन्दी परियोजना)**

2 निबंध (शब्द संख्या 250 शब्द)

सारांश ( साहित्य सागर से किसी भी एक कहानी का)

मुख्य किरदार का चरित्र चित्रण

लेखक का परिचय

भावार्थ (साहित्य सागर से किसी भी एक कविता का)

लेखक का परिचय