

HOLIDAY HOMEWORK FOR CLASS IX:

ENGLISH LANGUAGE:

You are the President of the music club of your school. Write a notice about the inter-school singing competition that your school is going to host.

Write an email to the Principal of a nearby school inviting his or her school to participate in the event.

ENGLISH LITERATURE:

Project Assignment- Discuss R.K Narayan's treatment of the comic elements in 'A Horse and Two Goats'.

BIOLOGY

1. Practical work to be completed in the Lab manual.

2. To do Pg 36 Question A1 (a to e)

2 (a to d)

4 (a to e)

Pg 37 Question E 2 (a, b, c)

3 (a, b, c, d)

3. To revise ' The Cell' & 'The Tissues'

CHEMISTRY

1. Write formula of :-

a) Magnesium acetate b) Aluminium nitrate c) calcium phosphate

d) mercury(II)chloride e) copper(II)bromide f) Iron (III)sulphide

2. Find the percentage composition of each element in CH_3COOH .

3. Calculate the molecular mass of NH_3 and NaHCO_3 (N=14, C=12, H=1, O=16, Na=23)

4. Atomic mass of an element is 55.847. What do you mean by this?

5. Complete the given word equations, identify each type and balance them:-

a. Lead nitrate + potassium iodide \rightarrow

b. Copper + silver nitrate \rightarrow

- c. calcium carbonate →
- d. Zinc + sulphuric acid →
- e. Iron(III) oxide + aluminium →
- f. Magnesium + nitrogen →
- g. potassium iodide + chlorine →

COMMERCIAL STUDIES

Visit any business firm which is owned and controlled by one person. Meet its owner and find out the problems faced by him.

ECONOMIC APPLICATIONS

Identify the major brands of biscuits that are available in the market of your area. Select sample of 10 shops that sell these brands, and collect the statistical data on sales of these brands over a period of one week at these shops. Identify the brands that sell the most and present your findings in way of presentation in your class.

COMPUTER APPLICATIONS

1. Write a program to input two numbers from the user and perform addition, subtraction, multiplication and division and print all the answers in separate lines.
2. Write a program to input three marks of three subjects; calculate the sum and the average marks.
3. Write a program by following the details given below:

(a) class Name-Name_pay

(b) Variables used in the program-name, salary, da, hra, gross.

(c) Member methods:

(i) void input_data()-To accept the name and salary from the user.

(ii) void calculate()-To calculate da, which is 15% of the salary; hra, which is 10% of the salary; gross salary=da+hra+salary.

(iii) void print_result()-To print the name of a person, his salary, and the gross amount.

Write a main method to create an object and call the above methods.

4. Define a class Telephone, having the following descriptions:

(a) Data members:

- (i)String name-to store the name of the customer.
- (ii)double amount-to store the final amount after calculation.
- (iii)double rate-to store the rate per unit.
- (iv)int units-to store the number of units consumed per month.
- (v)int number_of_months-to input the number of months from the user.

(b)Member methods:

(i)void input()-to input the name of the customer, rate amount, number of units and number of months from the user.

(ii)void calculate()-to calculate the final amount.

(iii)void display()-to display the name of the person, number of units consumed per month, rate amount and gross total.

Write a main method to create an object and call the above methods.

5. Write a program for printing the air tickets from the instructions for two passengers:

(a)Class name- Air_ticket.

(b)Data members:

- (i)long ticket_number- to input the ticket number
- (ii)String from_city- to input the name of the city travelling from.
- (iii)String to_city- to input the name of the city travelling to.
- (iv)String customer_name- to input the name of the customer.
- (v)int price- to input the price of the tickets
- (vi)int flight number- to input the flight number.

(c)Member methods:

(i)void get_data()-to take the required input from the user.

(ii)void print_ticket-to print the details.

6. Write a program that computes the volume of a cylinder taking the radius and height from the user using the value of pi as 3.14.

7. Write a program that computes the compound interest by taking the principal, rate and time from the user.

i) class name- Compound

ii) data members-

- a) int principal.
- b) double rate
- c) int time
- d) double compound_interest

iii) Member methods:

- a) void input()- to input principal, rate and time from user.
- b) void calculate()- to calculate the compound interest.
- c) void print()- to print the details.

ALL THE QUESTIONS MUST BE DONE IN A PROJCT FILE BY FOLLOWING THE FORMAT GIVEN BELOW:

File format-

1.Title Page

- COMPUTER APPLICATIONS PROJECT, programming in BlueJ
- Name of the student, class and roll no. (Written in bold letters use black pen for the entire project)
- Signature

2. Table of Contents

- Program No./Serial No. (It should be followed with question description)
- Program name (in brief)
- Page No

3. Acknowledgement

4. Question/Program

- No. of program to be mentioned

5. Algorithm

- Pseudo Code/Stepwise
- Should be specific **not general**

6. Solution/Coding

7. Variable Description

8. Output (Print out of screenshot of the terminal window on white page after the coding is over.)

GEOGRAPHY

*To complete the given project work

* Assignment I – Conventional Symbols

*Assignment II - Direction

* World Map – Surrounding Waterbodies , Important Latitudes & Longitudes.

* To locate Mountains , Plateaus & Plains on the World map.

HINDI

Chapter-i) Saakhi- kabir das

Chapter-ii) sanskar aur bhavna

Read the chapters & Question-answers.

Essay-i) Atmabhiswas

II)patra lekhan

HISTORY & CIVICS

1. Complete Project WORK ON Vedic Age
2. Learn all question answers from History chapters 1,2,3,4, Civics 1,2.
3. Complete question answers from pages 12,30,16,29,30,44,45. History

MATHEMATICS

Projects on Mathematics is given below: -

Project 1 – Study ways of raising loan to buy a car or house.

Should follow the project structure was given in the class, otherwise follow from our school website.

Try to do the following sums as given below: -

1. Factorise: $(x - y)^2 - 6(x - y) + 5$
2. Simplify: $-(x - 2/x)(x^2 + 2 + 4/x^2)$.
3. Factorise: $(a + b)^3 - a - b$
4. Factorise: (Using Identities only) i) $(979)^2 - (21)^2$ and ii) $(99.9)^2 - (0.1)^2$
5. Find the five rational numbers between 2 and 3.
6. Simplify: $a^6 - b^6$
7. Factorise: $4(a-1)^2 - 4(a-1) - 3$

PHYSICS

Do the following questions: -

- a) What is the Least Count of Vernier Callipers?
- b) What is second pendulum?
- c) State its SI units of the following: i) Momentum ii) Power iii) Electric Potential iv) Electric Resistance What is force? State its SI unit.
- d) Define Average velocity.
- e) Define: - i) Pitch and ii) Least Count of a Screw Gauge.
- f) Express the speed 36 Km h⁻¹ in m s⁻¹.
- g) An athlete often runs before taking a long jump – Why?
- h) Why does a ball thrown vertically upwards in moving train, come back to the thrower's hand?
- i) Define Acceleration due to gravity.
- j) What is the relation between them?

Subject Bengali

Q1 একটি পুরোনো মন্দিরের আত্ম কথা বিষয় টি নিয়ে একটি রচনা লেখো

Q2 তোমার এলাকায় পানিও জলের অভাব এই বিষয় নিয়ে পৌরপ্রধান কে একটি চিঠি লেখো

Q3 লালুর চরিত্র লেখো
