

HOLIDAY HOMEWORK 2026-27

Std-10

Biology

1) Write and learn the definition of ch-2 ,3 & 4

2) Practice diagram of:

Structure of chromosome, Prophase, Metaphase, Anaphase, Telophase

(both plant & animal cell), Full grown root hair.

3) Experiment to demonstrate osmosis, osmotic pressure, turgor, pressure, wall pressure, conduction of food through Xylem tissue and conductor of food through phloem tissue

4) Write and learn functions of following:

Centromere Gene, Histone protein, Root hair, cellophane paper, Muslin bag.

COMMERCE :- 1. Complete the project work discussed in the class.

2. Learn the question and answers of chapter 4 to 8.

MATHEMATICS

Solve the following Test Yourself from the below given chapters:

(i) G.S.T (ii) Banking (iii) Linear Inequations (iv) Quadratic Equation

(v) Ratio & Proportion (vi) Remainder & Factor Theorem (vii) Matrices

PHYSICS

1. Write questions and answers of Chapter 3 (Machine)

2. Solve numericals from chapter 1, 2 and 3.

CHEMISTRY

1. Write question and answer of chapter 1 (Periodic table)

2. Solve numericals from chapter 5 (Mole concept)

GEOGRAPHY

Prepare a project on the Climate of India in your Practical Copy.

HISTORY

Project work on the United nations.

HINDI

हिंदी व्याकरण

सूची संख्या 5 तक पूरा करें द्य

Computer Applications

Assignment Questions- 1 to 10

Q.1) A bank announces new rates for Term Deposit Schemes for their customers and Senior Citizens as given below:

Term Rate of Interest (General) Rate of Interest (Senior Citizen)

Upto 1 year 7.5% 8.0%

Up to 2 years 8.5% 9.0%

Up to 3 years 9.5% 10.0%

More than 3 years 10.0% 11.0%

The senior citizen rates are applicable to the customers whose age is 60 years or more.

Write a program to accept the sum (p) in term deposit scheme, age of the customer and the term.

The program displays the information in the following format:

Amount Deposited | Term | Age | Interest Earned | Amount Paid

Q.2) Write a menu driven program to calculate:

Area of a circle = $p r r$, (where $p = 22/7$)

Area of a square = side side

Area of a rectangle = length breadth

Q.3) Define a class to accept a number and check whether it is a SUPERSPY number or not. A number is called SUPERSPY, if sum of the digits of the number equals to the number of the digits.

Example:-

- Input: 1021
- Output: SUPERSPY number. (Sum of the digits = 1+0+2+1=4, Number of digits = 4)

Q.4) Define a class to overload a method number() as:

(i) void number(int num, int d): To count and display the frequency of a digit in a number.

For example:

Sample Input: num = 2565685, d = 5

Frequency of digit: 3

(ii) void number(int n): To find and display the sum of even digits of a number.

For example:

Sample Input: n = 29865

Sum of even digits: 16 (2 + 8 + 6)

Q. 5. A school is giving away merit certificates for the students who have scored 90% and above in class 10.

The following program is based on the specification given below:

Class name: Student

Member Variables:

String name: to enter name of a student.

double per: to enter percentage obtained by the student.

String cert: to store the message (Merit certificate is awarded/not awarded).

Member methods:

void input(): to accept the detail.

void merit(): to check the percentage and award the merit.

void display(): to display the detail.

Write main method to create an object of the class and invoke the methods.

Programming Exercises.

Q.6) Write a program to input a number and display the sum of factorials of each digit.

Q.7) Write a menu-driven program to:

1. Check prime number.
2. Check palindrome number.
3. Check perfect number.

4. Q.8) Write a program to print the following pattern:

Pattern Reverse Pattern

5 5 4 3 2 1

5 4 5 4 3 2

5 4 3 5 4 3

5 4 3 2 5 4

5 4 3 2 1 5

Q.9) Using switch statement, write a program for the following:

- (a) $S = x^1 + x^2 + x^3 + x^4 + \dots + x^n$
- (b) 1, 11, 111, 1111, 11111

Q.10) Write a program to input a number and check whether it is a Harshad Number or not.

(A number is said to be Harshad number, if it is divisible by the sum of its digits.) The program displays the message accordingly.

Sample Input: 132

Sum of digits = 6 and 132 is divisible by 6.

Sample Output: 132 is a Harshad Number.

English Literature

- 1) Julius Caesar workbook - Do exercises related to Act III, Scene I.
- 2) Prose workbook - Do exercises related to "With the Photographer".
- 3) Poetry workbook - Do exercises related to "Haunted Houses".

English Language

- 1) Do question no.4 from the test papers 1 to 5 in your practice note book.