

Salwan Public School , Mayur Vihar-III, Delhi-110096

Summer Vacation Home work (Integrated) 2019-20

Fun combined with Education renders the best learning experience for students. Taking this aspect into consideration the school will be organizing an exhibition of its kind “We are the Mathemagic world” in this session. Therefore, the task given under will serve as as a ground work for the exhibition.

Class XI:

Maths: Revise the chapters which are done in the class

English:Read all the chapters in your text thoroughly. Revise the chapters done so far for PT I.
Read the newspaper daily to know about the current topics and practice Writing Skills.

Painting: Make a composition with five human figures on any topic.
Make a sketch in your sketch book (with shading) on any seal of Indus Valley civilization.
Practice sketching regularly.

Informatic Practices: Explore and try to learn app making applications i.e. Kodular, Thinkable, MIT App Inventor, Android studio etc. to make an app in July.

1. Write the SQL statements for the following:

- (a) To select a column named “Ename” from a table named “Inventory”
- (b) To insert new data in a table.
- (c) To display the result of arithmetic expression $78*2$ on screen.
- (d) Statement to select a database and make it current.
- (e) Clause is used to sort the result of query.
- (f) Statement to eliminate redundant data
- (h) Operator to make range and clause to use specific rows
- (i) Keyword to retain duplicate output rows.

2. Write SQL Command the given table

HOSPITAL Table Data

Pno	Name	Age	Department	Dateofadm	Charges	Sex
1	Arpit	62	Surgery	2008-01-12	300	M
2	Zarina	22	ENT	2007-12-12	250	F
3	Kareem	32	Orthopaedic	2008-02-19	200	M

4	Arun	12	Surgery	2008-01-11	300	M
5	Zubin	30	ENT	2008-01-12	250	M
6	Ketaki	16	ENT	2008-02-24	250	F
7	Ankita	29	Cardiology	2008-02-20	800	F
8	Zareen	45	Gynaecology	2008-02-22	300	F
9	Kush	19	Cardiology	2008-01-13	800	M
10	Shilpa	23	Nuclear Medicine	2008-01-20	400	F

- To list the names of female patients who are in ENT department.
- To list names of all patients with their date of admission in ascending order.
- To display Patient's Name, Charges, Age of only female patients.
- To count the number of patients with Age<30
- Display the department wise total charges.
- Display the department wise total charges whose maximum charges more than equal to 300.

Computer: Research for new apps/online utilities to develop android apps and learn them by watching their tutorials. The same is to be presented in July.

- Algorithm is a process or set of rules to be followed in problem-solving operations and is free of any language. Write algorithms for the following problems :
 - To find maximum between three numbers.
 - Write a C program to check whether a number is negative, positive or zero.
 - Write a C program to check whether a number is divisible by 5 and 11 or not.
 - Write a C program to check whether a number is even or odd.
 - Write a C program to check whether a year is leap year or not.
 - Write a C program to check whether a character is alphabet or not.
 - Write a C program to input any alphabet and check whether it is vowel or consonant.
 - Write a C program to input any character and check whether it is alphabet, digit or special character.
 - Write a C program to check whether a character is uppercase or lowercase alphabet.
 - Write a C program to input week number and print week day.
 - Write a C program to input month number and print number of days in that month.
 - Write a C program to count total number of notes in given amount.
 - Write a C program to input angles of a triangle and check whether triangle is valid or not.
 - Write a C program to input all sides of a triangle and check whether triangle is valid or not.

- Write a C program to check whether the triangle is equilateral, isosceles or scalene triangle.
- Write a C program to find all roots of a quadratic equation.
- Write a C program to calculate profit or loss.
- Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:
 - Percentage $\geq 90\%$: Grade A
 - Percentage $\geq 80\%$: Grade B
 - Percentage $\geq 70\%$: Grade C
 - Percentage $\geq 60\%$: Grade D
 - Percentage $\geq 40\%$: Grade E
 - Percentage $< 40\%$: Grade F
- Write a C program to input basic salary of an employee and calculate its Gross salary according to following:
 - Basic Salary ≤ 10000 : HRA = 20%, DA = 80%
 - Basic Salary ≤ 20000 : HRA = 25%, DA = 90%
 - Basic Salary > 20000 : HRA = 30%, DA = 95%
- Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:
 - For first 50 units Rs. 0.50/unit
 - For next 100 units Rs. 0.75/unit
 - For next 100 units Rs. 1.20/unit
 - For unit above 250 Rs. 1.50/unit
 - An additional surcharge of 20% is added to the bill

Science: Revise the syllabus covered so far in Physics, Chemistry, and Biology.

Assignments given to be done and submitted in Physics, Chemistry, Biology.

Select a topic for your investigatory project in Physics, Chemistry and Biology and collect all the information and make a soft copy of the project.

Assignments given to be done and submitted in Physics, Chemistry, Biology.

Economics: 1. Prepare a Project report of 200-300 words on the topic selected (Topic for the same has been selected by children in consultation with the teacher.)