DBN SR SEC SCHOOL, AJMER

SUMMER HOLIDAY HOMEWORK 2022-23

Dear Students,

Summer Vacation is the most awaited time for both parents and kids. Vacation is the time for the children to explore their myriad interest and indulge in various activities which would lead to their all-round development.

We, at **DBN**, understand it very well. Considering this, we have tried to keep the homework simple, informative, interesting and fun filled.

For you, it may be time to smile and play, Summer Vacations begins from 12th May 2022.

We will miss you at school and wait for the lovely day, When you are back making our days lively and gay. At home, help your mother and have a lot of fun, play indoor games, be in shade, away from the sun. Read a while, don't forget to do a page of writing.

Spread happiness and joy, with no refusal and no fighting.

In accordance with the guidelines of CBSE, we are incorporating integrated project-based learning wherein students will prepare projects for all the subjects based on a common theme. This endeavor has been taken up with the objective of inculcating the approach of integrating diverse subjects or fields and the spirit of collaborative learning. The school has planned a vacation homework in the form of Integrated Project to ensure that every student do not stay out of the learning path.

Wish you all safe and healthy holiday ahead!

Principal

CLASS-XII SCIENCE

Sub-Chemistry

Project :Select any topic from XII ncert and submit its name so that same project will not be selected by any other students

Topic selected by you should be clear to you knowledge wise so that you can easily give viva on it

It should be of 13-15 pages

It should be presentable, informative, colourful etc.

It should consist of graphs/ diagrams/ pictures/ tables etc.

You can take any topic from 12th ncert book

It's format:-

1.Coverpage : School name

Subject: Chemistry

Class name with stream

Title of topic

Guided by: Teacher's name

Submitted by: Your name(cbse board exam roll no.)

2.Certificate

3.Acknowledgments

4.Index with page no.

5.Content with (Text/ tables/diagrams/ pictures/ graphsWhatever correlated)

6.Conclusion

7.Bibliography

CLASS XII SCIENCE
Sub-PHYSICS

1. Prepare a Physics project file on any topic from your syllabus and should be at least 10 pages(According to the format is given in chemistry homework)
2. Solve your first periodic paper in your notebook
3. Write in your notebook solution of all numericals of chap: "Electric charges & fields " and "Electrostatic potential" of NCERT book

Sub-BIOLOGY

ANSWER THE FOLLOWING QUESTIONS
1. Define:- MMR,IMR
2. Explain the condition related to Amniocentesis.
3. What is RCHP.
4. When did the progeammes for family planning were initiated in India?
5. Explain the Term CDRI.
6. Explain Lactational Amenorrhea.
7. Differentiate between Diaphragm,Cervical caps and vaults.
8. What are CuT,Cu7,Multiload375.
9. Give detailed account of Infertility in humans.
10. Expand the terms:-ART,IVF,ET,ZIFT,GIFT,IUI,MTP.

Sub-Mathematics

1) PROJECT : Make a project file on the topic Contribution of famous mathematician in the field of mathematics.(10 to 15 pages)

2) Prepare a PowerPoint presentation on topic Matrix or Determinants

3) Revise and practice chapter 3,4

Sub–Music

Q1. Write a biography on any three Hindustani Classical Music Singers whom you know about.

   You need to write about each in a A4 size drawing sheet.You may paste a picture too.

Q2. Name any two Hindustani Instrumental players. Write a short note on them.Use Chart sheet for this answer. You may paste pictures and write.

Q3. Write Sargam on a chart sheet in big fonts.

Q4.Which singers do you like the most and why? Use ruled paper to write this answer.

Q5. Which taals are famous? Write atleast 4 taals on four different A4 size sheet in coloured fonts.

Sub-Physical education

1. Solve Periodic first exam question paper in your Notebook.

2. Complete Lesson-1 in your notebook.

3. Write all skills of Basketball game.

4. Draw a knockout fixture of 21 team.

Sub-English Core

* This work is to be done in group of 4.

1. Prepare a project file on a poet which is prescribed in your syllabus.
Page- 1- Cover page
Page 2-- Acknowledgement
Page 3- Certificate
Page 4- Index
Page 5- About the poet
Page 6- Timeline
Page7-13- poems by the poet
 page14 -Writing style of the poet page 15- Bibliography
Page 16- List of works done by students with their names
Decorate the file and paste pictures.
2. Make a PPT on the poet.
One of you will explain the PPT in English.

Sub-Informatics Practices

Q.1.   Mr. Ankit is working in an organisation as data analyst. He uses Python Pandas and Matplotlib for the same. He got a dataset of the passengers for the year 2010 to 2012 for January, March and December. His manager want certain information from him, but he is facing some problems. Help him by answering few questions given below: Code to create the above data frame:

import pandas as   #Statement 1

data={"Year":[2010,2010,2012,2010,2012],"Month":["Jan","Mar","Jan","Dec","Dec"]

,"Passengers":[25,50,35,55,65]}

df=pd. (data)   #Statement 2 print(df)

i.   Write complete code for statement 1.
ii.   Write complete code for statement 2.
iii.   Write the correct statement/ method for the required output: (5,3)
iv.   He wants to print the details of "January" month along with the number of passengers, Write the statement:
v.   Mr. Ankit wants to change the index of the Data Frame and the output for the same is given below. Write the statement to change the index.

Q.2. A School in Delhi uses database management system to store student details. The school maintains a database 'school_record' under which there are two tables.
Student Table : Maintains general details about every student enrolled in school.
StuLibrary Table : To store details of issued books. BookID is the unique identification number issued to each book. Minimum issue duration of a book is one Day.

Student	
Field	Type
StuID	numeric
StuName	varchar(20)
StuAddress	varchar(50)
StuFatherName	varchar(20)
StuContact	numeric
StuAadhar	numeric
StuClass	varchar(5)
StuSection	varchar(1)

StuLibrary	
Field	Type
BookID	numeric
StuID	numeric
Issued_date	Date
Return_date	Date

Write SQL Queries to create these two tables and their relations

Q.3. Write the output of statement 1 to 4

```
import pandas as pd list1=[1,2,3,4,5,6,7,8]
list2=['swimming','tt','skating','kho kho', 'bb', 'chess', 'football',"cricket"] school=pd.Series(list1,index=list2)
school.name=("little")
print (school*2)  #statement 1
print (school.tail(3))      # statement 2
print (school["tt"])        # statement 3
print (school[2:4])         # statement 4
```

Q4. Write DDL and DML queries with examples as discussed in class XI.

Q5. Complete all back question unsolved from Sumita Arora Chapter -1.(Page no 77 to 84)

Make a computer practical file (preferably classmate) and complete the following experiments

1. Write a python program to create series from different methods
2. Write a python program to create a series from an already existing series
3. Write a python program to demonstrate the use of series indexing and slicing
4. Write a python python program to demonstrate the use of series attribute
5. Write a python python program to add marks of three subject subject vise using series
6. Write a python program to create data frame using multiple methods.