GEETA DEVI DAV PUBLIC SCHOOL

BHANDARKOLA, SATAR ROAD, DEOGHAR

SUMMER VACATION HOLIDAY HOME WORK-(2025-26)

Class: -XII (Science & Commerce)

ENGLISH

Project:

Write a brief sketch along with the descriptions of any 3 literally works of Wilfred Owen and W. H. Auden on chart paper with necessary photographs.

Assignment:
Give a brief description of different types of imageries with sufficient number of examples with reference to the poems My Mother at Sixty Six, Keeping Quiet and A Thing of Beauty.

(Assignment must be done in a separate note book)

BIOLOGY

Prepare an investigatory project and submit its typed record (in 20-25 pages) choose one from the given topics :-

a) Possible effects of maternal behaviour On fetal development

b) Study of effects of antibiotics on Micro-Organism
c) Detailed study of infertility Its causes and treatment
d) How's cigarettes affect your health
e) Diffusion vs food colouring

Q2. Draw the diagram of

Male reproductive system

Or

Nucleosome

Or

An antibiotic molecule

Q3. Solve all questions of NCERT textbook exercise from chapter 1 ,2 ,3 and 4

PHYSICS

Solve NCERT exercise of chapter 1 & chapter 2.

2. Solve NCERT Examplar of chapter 1 and chapter 2.

CHEMISTRY

1. Prepare the investigatory projects.

Investigatory projects: On study of quantity of casein present in different samples of milk.

Or

Presence of insecticides and pesticides in food.

Or

Smoke bomb.

Assignment : NCERT exercise questions and all intext questions of chapter solution and electrochemistry.

(Assignment must be done in a separate note book)

MATHS

1.Solve all the previous five years CBSC questions of the topic relation, function and matrix in a separate copy.

2.Write activity number 1 to 5 in your activity copy.

ACCOUNTANCY

01: Comprehensive Project (Journal, Ledger, Trial Balance, Cashbook, Subsidiary Project Book, BRS,

Trading and Profit and Loss Account and Balance Sheet of a Particular Firm)

Project 02: Specific Project (Balance Sheet, Comparative and Common Size Statement, Accounting

Ratio and Cash Flow Statement of a Particular Company)

General Instructions:

- Project must be in Project File which was shown in your class.
- Only Project Paper is allowed (One side blank and one side rule)
- In Specific Project there should be proper presentation of Bar diagrams and Pie chart
- Use only Black and Blue Pen, and Pencil colours if requires.
- Project must have Cover Page, Acknowledgement, Index, Preface, Certificate by teacher, Introductory page, Content pages (35-45), Conclusion, Reference and Bibliography
- Project will be checked on the first day after Summer Vacation

B.ST.

Visit a Business Firm and Prepare a Project on the Implementation of various theories of Management.

You can choose any chapter of your choice.

General Instructions:

- Project must be in Project File which was shown in your class.
- Only Project Paper is allowed (One side blank and one side rule)
- Paste Colour Pictures and Draw Diagrams wherever requires.
- Write some Key topics with proper explanation in points of the chapter which you will choose.
- Use only Black and Blue Pen, and Pencil colours if requires.
- Project must have Cover Page, Acknowledgement, Index, Preface, Certificate by teacher, Introductory page, Content pages (35-45), Conclusion, Reference and Bibliography
- Project will be checked on the first day after Summer Vacation

COMPUTER SCIENCE

1. Read the following chapters from text book:
    a. Python Revision Tour – I
    b. Python Revision Tour – II
    c. User Defined Functions
    d. Python Modules and Libraries
2. Complete the exercise and assignment questions of the above mentioned chapters from book.
3. Revise the theoretical concepts of programming
4. Prepare all chapters for Unit Test I
5. Read the Chapter Networking and Concepts which will be started after summer break.
6. Plan for the topic of the project, group members in the project and submit the same after summer break.
7. Prepare Acitivity/Practical file containing 5 questions each from following topics:
    a. Conditional Programming and Iterative Programming
    b. Lists, Tuples and Dictionary
    c. User defined functions

INFORMATICES PRACTICES

(XII- IP **Topic Revision Tour of XI Python)**

Q no.	Questions
1	Out of the following, find those identifiers, which cannot be used for naming Variables or functions in a Python program: **#Tag, While, Class, Switch, 3rdRow, finally, Column 31, Total+ , Days * Rent, For, A_price, Grand Total, do, 2Clients, Participant13, My_city**
2	Which string method is used to implement the following: i. To count the number of characters in the string. ii. To change the first character of the string in capital letter. iii. To check whether given character is letter or a number. iv. To change lowercase to uppercase letter. v. Change one character into another character.
3	Write a program to check whether a string is palindrome or not
4	WAP a program to reverse a number (without using slicing) and check whether it is a palindrome or not.
5	Rewrite the following for loop into while loop: **for a in range(90, 9, -9):** **print a**
6	Write a program to input any string and to find the number of words in the string and also print the 5th word.
7	How many times will Python execute the code inside the following while loop? You should answer the question without using the interpreter! Justify your answers. **i = 0** **while i < 0 and i > 2 : print "Hello ..."** **i = i+1**
8	What is the correct way to add an element to the end of a list in Python?
	a. list.add(element) b. list.append(element) c. list.insert(element) d. list.extend(element)
9	What will be the output of **print("Welcome To My Blog"[2:6] + "Welcome To My Blog"[5:9])**
	a. Lcomme b. lcomme T c. lcomme To d. lcomme
10	Which of the following statement(s) would give an error during the
	execution of the following code? **R = {'pno':52,'pname':'Virat', 'expert':['Badminton','Tennis'] ,'score':(77,44)}** **print(R) #Statement 1** **R['expert'][0]='Cricket' #Statement 2** **R['score'][0]=50 #Statement 3** **R['pno']=50 #Statement 4**
	a. Statement 1 b. Statement 2 c. Statement 3 d. Statement 4
11	Given the following dictionaries
	dict_student = {"rno" : "53", "name" : 'Rajveer Singh'} **dict_marks = {"Accts" : 87, "English" : 65}** Which statement will append the contents of dict_marks in dict_student? a. dict_student + dict_marks b. dict_student.add(dict_marks) c. dict_student.merge(dict_marks) d. dict_student.update(dict_marks)
12	Which of the following is not a component of the math module in Python?
	a. ceil() b. mean() c. fabs() d. pi 13
	What will be the output of the following code? **L=["One , Two", "Three", "Four"]** **print(len(L)/2*len(L[0]))** a. 6.5 b. 13 c. 13.5 d. 6.0

14	Rewrite the following code in Python after removing all the syntax errors. Underline each correction done in the code.
	`num1, num2 = 10, 45`
	`While num1 % num2 == 0`
	`num1+= 20`
	`num2+= 30`
	`Else:`
	`  print('hello')`

15	Write a suitable Python statement for each of the following tasksusing built-in functions/methods only: i To delete an element Mumbai:50 from Dictionary D. ii To display words in a string S in the form of a list
16	Write a program to take a string and count how many words are starting from a vowel 'aeiouAEIOU'
17	Write a Python Program to display alternate characters of a stringmy_str. For example, if **my_str = "Computer Science"** The output should be **Cmue cec**
18	WAP to count the number of digits in a string taken from the user
19	For example, Consider the following dictionary BOOKS **BOOKS = {1:"Python", 2:"Internet Fundamentals ", 3:"Networking ",4:"Oracle sets", 5:"Understanding HTML"}** **WAP a program that takes the dictionary BOOKS and displays the names in uppercase of those books whose name starts with a consonant.**

20	What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code?
	`import random`
	`points=[20,40,10,30,15]`
	`points=[30,50,20,40,45]`
	`begin=random.randint(1,3)`
	`last=random.randint(2,4)`
	`for c in range(begin,last+1):`
	`  print(points[c],"#")`
	(a) 20#50#30# (b) 20#40#45 (c) 50#20#40# (d) both (b) and (c)

21	**State True or False:** "Tuple is datatype in Python which contain data in key-value pair."

22	Select the correct output of the code:
	`s='mail2kv@kvsangathan.kvs.in'`
	`s=s.split('kv')`
	`op = s[0] + "@kv" + s[2]`
	`print(op)`
	
	(A) mail2@kvsangathan (B) mail2@sangathan. (C) mail2@kvsangathan. (D) mail2kvsangathan.

23	(A) Given is a Python string declaration:
	`message='FirstPreBoardExam@2022-23'`
	Write the output of: `print(message[ : : -3].upper())`
	
	(B) Write the output of the code given below:
	`d1={'rno':25, 'name':'dipanshu'}`
	`d2={'name':'himanshu', 'age':30,'dept':'mechanical'}`
	`d2.update(d1)`
	`print(d2.keys())`

24	Predict the output of the Python code given below:
	`data=["L",20,"M",40,"N",60]`
	`times=0`
	`alpha=""`
	`add=0`
	`for c in range(1,6,2):`
	`  times = times + c`
	`  alpha = alpha + data [c-1] + "@"`
	`  add = add + data[c]`
	`  print (times, add, alpha)`

25	Predict the output of the Python code given below: **L=[1,2,3,4,5]** **Lst=[]** **for i in range(len(L)):** **if i%2==1:** **t=(L[i],L[i]**2)** **Lst.append(t)** **print(Lst)**
26	Predict the output of the code given below: **s="C++VsPy"** **m=""** **for i in range(0, len(s)):** **if (s[i] >= 'a' and s[i] <= 'm'):** **m = m +s[i].upper()** **elif (s[i] >= 'n' and s[i] <= 'z'):** **m = m +s[i-1]** **elif (s[i].isupper()):** **m = m + s[i].lower()** **else:** **m = m +'&'** **print(m)**
27	What will be the output of the following python program? **str = ""** **name = "9@Days"** **for x in name:** **if x in "aeiou":** **str+=x.upper()** **elif not x.isalnum():** **str+="**"** **elif x.isdigit():** **pass** **else:** **str+=x.lower()** **print(str)**
28	State True or False i) “Python has a set of keywords that can also be used to declare variables” ii)
29	Select the correct output of the following python code: **str="My program is program for you"** **t = str.partition("program")** **print(t)** a) ('My ', 'program', ' is ', 'program', ' for you') b) ('My ', 'program', ' is program for you') c) ('My ', ' is program for you') d) ('My ', ' is ', ' for you')
30	a) What will be the output of the following string operation. **str="PYTHON@LANGUAGE"** **print(str[2:12:2])** b) Write the output of the following code. **data = [1,2,4,5]** **for x in data:** **x = x + 10** **print(data)**