WINTER HOLIDAY HOMEWORK (PHYSICS)

CLASS XII

- 1. complete practical work /record if not completed yet.
- 2. Complete investigatory project.
- 3. Revise all the chapters for Preboard 2.
- 4. Solve 10 Years previous year board questions.
- 5. Solve CBSE sample paper.

Winter Break Homework

Class XII

Prose:

- 1. Key points
- 2. Glossary
- 3. Justification of the Title
- Central Theme
- 5. Critical analysis of the main Characters (prose)

Poetry:

- 1. Summary
- 2. Glossary
- 3. Central Theme
- 4. Justification of the Title
- Poetic Devices

All the chapters of Flamingo and Vistas.

Chemistry

All Name reactions with proper examples (Also exceptions if any)

HOLIDAY HOMEWORK 15 22+×+1 dx 1. (12-12)da 16. J (22+3)(22+3) AX 2. Jun (322+22+3) da 15 2 logz da 3 x Vx+2 dx 4. (x5 (x3-1) da 18. (cin2) da 19: (= (1+ sinx) da 5. Jen da 20 VI-42 da 6. tan (22-3) da 21. JV1+3x-x dx 7 Stanz dx 22 Jusy+sing dr 8. Sinaasinaasinaada 23 Sla-5/da 9. Scos 22da 24. 5x (1-x) dx 10. $\frac{10}{\sin(x-a)}\sin(x-b)$ 11. $\int \frac{1}{5\ln(n-a)\cos(n-b)} dx = 25. \int_{0}^{\infty} \frac{x dx}{1+\sin x}$ 12. $\int \frac{1}{5\ln(n-a)\cos(n-b)} dx = 26. \int_{0}^{2\pi} \frac{x dx}{\cos^2 x dx}$ $\int \frac{\sin(x-a)}{\sqrt{2x^2+x-3}} dx = 27 \int \frac{1}{\sqrt{3}} \log(H\cos x) dx$ $13. \int \frac{5x-2}{1+2x-3x^2} dx$ Singada 29. 5 dx

VI+2-VZ

0 17/14 sinx+e 14. 1-2 da

कक्षा XII

शीतकालीन अवकाश हेतू गृह कार्य

- सिल्वर वैडिंग- कहानी के आधार पर
 पीढ़ियों के अंतराल विषय पर एक 200-250 शब्दों में आलेख लिखिए
- 2. वितान भाग-2 में संकलित *सिल्वर वैडिंग*, *जूझ* एवं *अतीत में दबे पांव* पाठ पढ़कर प्रत्येक पाठ संबंधित 25 लघुतरात्मक प्रश्न एवं उत्तर तैयार कीजिए ।
- 3. कवि आलोक धन्वा के "पतंग"- कविता पढ़कर समान भाव वाली एक स्वरचित कविता बनाइए।
- 4 'बाजार दर्शन' पाठ से 10प्रश्न तैयार कर उत्तर लिखिए।
- भिक्त काल के सर्वश्रेष्ठ कवि तुलसीदास पर परियोजना कार्य तैयार कीजिए।

Class - 12th B

Winter Break holiday homework

- Complete practical file with all the experiments given in the practical syllabus and also make neat and well labelled diagrams.
- Revise all the syllabus for pre- board exam II
- 3) Prepare an Investigatory project on the topic chosen by you To be submitted as a project assignment for CBSE board examination
- Revise the following chapter for the test after winter vacations
 - 1) Principles of inheritance and variations
 - 2) Molecular basis of inheritance
 - 3) Evolution
- 5) Solve the sample question paper shared by the teacher in class notebook.

HOLIDAY HOMEWORK DEC 2023 CLASS 12 IP

What will be the output of following code- import pandas as pd s1=pd.Series([1,2,2,7, Sachin',77.5]) print(s1.head(3)) Write a program in python to find maximum value over index in Data frame.		WORKSHEE	i – Data Handling Using P	andas	
s1=pd.Śeries([1,2,2,7,'Sachin',77.5]) print(s1.head(l)) print(s1.head(l)) print(s1.head(l)) print(s1.head(l)) print(s1.head(l)) White a program in python to find maximum value over index in Data frame. What are the purpose of following statements- 1. df.columns 2. df.iloc[: -i-5] 3. df[2:8] 4. df[:] 5. df.iloc[: -4 , :] Write a python program to sort the following data according to ascending order of Age. Name Age Designation Sanjeev 37 Manager Keshav 42 Clerk Rahul 38 Accountant Write a python program to sort the following data according to descending order of Name. Name Age Designation Sanjeev 37 Manager Keshav 42 Clerk Rahul 38 Accountant Write a python program to sort the following data according to descending order of Name. Name Age Designation Sanjeev 37 Manager Keshav 42 Clerk Rahul 38 Accountant Which of the following thing can be data in Pandas? 1. A python dictionary 2. An nd array 3. A scalar value 4. All of above All pandas data structure aremutable but not alwaysmutable. 1. Size, value 2. Semantic , size 3. Value, size 4. None of the above Pata and index in an nd array must be of same length- 1. True	1				
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3. Value, size 4. None of the above 8 Data and index in an nd array must be of same length- 1. True		•			
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8 Data and index in an nd array must be of same length- 1. True					
1. True	0		war must be of some longth		
	8		ray must be of same length	-	
9 What is the output of the following program?	g				
import pandas as pd	J		onoame brogram:		
df=pd.DataFrame(index=[0,1,2,3,4,5],columns=['one','two'])					
print df['one'].sum()					

	groupby('occupation Get mean age of occ				
		rs by mean age r by age and occupation	ı		
11	Which object do	you get after reading a	a CSV file usi	ng pandas.rea	ad_csv()
	1. Dataframe 2. Nd array 3. Char Vector 4. None	•			·
12	What will be the o	output of df.iloc[3:7,3:6]	5		
13	1. df[df['age'].is 2. df[df['age']== 3. df[df['age']== 4. None	=NaN]	e is missing:	,	
14		owing record in datafr			_
	Player Hardik Pandya KL Rahul	Kings Eleven	Category Batsman Batsman	BidPrice 13 12	Runs 1000 2400
	Andre Russel	Kolkata Knight riders	Batsman	7	900
	Virat Kohli	Mumbai Indians RCB	Bowler Batsman	10 17	200 3600
	Rohit Sharma		Batsman	15	3700
	Retrieve first 2 a	and last 3 rows using p	ython progra	ım.	
15	Write a command	to Find most expensive	Player.		
16		to Print total players pe			
17	Write a command	to Find player who had	highest BidP	rice from each	team.
18	Write a command	to Find average runs of	each team.		
19	Write a command	to Sort all players accor	rding to BidPı	rice.	
	+	e an index in pandas-			

Q	Question
No.	
21	State True or False
	"Tuple is datatype in Python which contain data in key-value pair."

22	Which of the following is not a keyword?			
	(A) eval	(B) assert		
	(C) nonlocal	(D) pass		
23	Given the following dictionaries			
	dict_student = {"rno" : "53", "name" : 'Rajveer Singh'}			
	dict_marks = {"Accts" : 87, "English" : 65}			
	Which statement will merge the contents of both dictionaries?			
	(A) dict_student + dict_marks	(B) dict_student.add(dict_marks)		
24	(C) dict_student.merge(dict_marks) Consider the given expression:	(D) dict_student.update(dict_marks)		
	not ((True and False) or True)			
	Which of the following will be correct of	output if the given expression is evaluated?		
	(A) True	(B) False		
	(C) NONE	(D) NULL		
25	Select the correct output of the code:			
	>>> s='mail2kv@kvsangathan.kvs.in'			
	>>> s=s.split('kv')			
	>>> s=s.split('kv') >>> op = s[0] + "@kv" + s[2]			
	>>> op = s[0] + "@kv" + s[2]	(B) mail2@sangathan.		
	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan.</pre>	(D) mail2kvsangathan•		
26	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan. Which of the following statement(s) we</pre>	•		
26	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan. Which of the following statement(s) we code?</pre>	(D) mail2kvsangathan. ould give an error after executing the following		
26	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan. Which of the following statement(s) we code?</pre>	(D) mail2kvsangathan•		
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26	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan. Which of the following statement(s) wo code? D={'rno':32,'name':'Ms Archana','subjections.</pre>	(D) mail2kvsangathan. ould give an error after executing the following		
26	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan. Which of the following statement(s) wo code? D={'rno':32,'name':'Ms Archana','subj. #S1</pre>	(D) mail2kvsangathan. puld give an error after executing the following ect':['hindi','english','cs'],'marks':(85,75,89)}		
26	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan. Which of the following statement(s) wo code? D={'rno':32,'name':'Ms Archana','subj. #\$1 print(D)</pre>	(D) mail2kvsangathan. puld give an error after executing the following ect':['hindi','english','cs'],'marks':(85,75,89)} #S2		
26	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan. Which of the following statement(s) wo code? D={'rno':32,'name':'Ms Archana','subj. #S1 print(D) D['subject'][2]='IP'</pre>	(D) mail2kvsangathan. puld give an error after executing the following ect':['hindi','english','cs'],'marks':(85,75,89)} #S2 #S3		
26	>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan (C) mail2@kvsangathan. Which of the following statement(s) we code? D={'rno':32,'name':'Ms Archana','subj. #\$1 print(D) D['subject'][2]='IP' D['marks'][2]=80	(D) mail2kvsangathan. puld give an error after executing the following ect':['hindi','english','cs'],'marks':(85,75,89)} #S2 #S3 #S4		
26	<pre>>>> op = s[0] + "@kv" + s[2] >>> print(op) (A) mail2@kvsangathan. (C) mail2@kvsangathan. Which of the following statement(s) wo code? D={'rno':32,'name':'Ms Archana','subjuts1 print(D) D['subject'][2]='IP' D['marks'][2]=80 print(D)</pre>	(D) mail2kvsangathan. puld give an error after executing the following ect':['hindi','english','cs'],'marks':(85,75,89)} #\$2 #\$3 #\$4 #\$5 (B) \$3 (D) \$3 and \$4		

```
print (round (100.0 / 4 + (3 + 2.55), 1))
     (A) 30.0
                                                    (B) 30.55
     (C) 30.6
                                                    (D) 31
28
     (A)
             Given is a Python string declaration:
                  message='FirstPreBoardExam@2022-23'
            Write the output of:
                                  print(message[ : : -3].upper())
             Write the output of the code given below:
     (B)
             d1={'rno':25, 'name':'dipanshu'}
             d2={'name':'himanshu', 'age':30,'dept':'mechanical'}
             d2.update(d1)
             print(d2.keys())
29
     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)
30
     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)
```

31	Find the invalid identifier from the following		
31	a) Marks@12 b) string_12 c)_bonus d)First_Name		
4	Identify the valid declaration of Rec:		
7	Rec=(1,"Ashoka",50000)		
	a) List b) Tuple c)String d) Dictionary		
33	Suppose a tuple Tup is declared as Tup = (12, 15, 63, 80) which of the following is incorrect?		
	a) print(Tup[1]) b) Tup[2] = 90		
	c) print(min(Tup)) d) print(len(Tup))		
34	The correct output of the given expression is:		
	True and not False or False		
	(a) False (b) True (c) None (d) Null		
	t1=(2,3,4,5,6)		
	print(t1.index(4))		
	output is		
	(a) 4 (b) 5 (c) 6 (d) 2		
35	Which of the following statement(s) would give an error after executing the following code?		
	x= int("Enter the Value of x:")) #Statement 1		
	for y in range[0,21]: #Statement 2		
	if x==y: #Statement 3		
	print (x+y) #Statement 4		
	else: #Statement 5		
	print (x-y) # Statement 6		
	(a) Statement 4 (b) Statement 5		
	(c) Statement 4 & 6 (d) Statement 1 & 2		
36	(a) Given is a Python string declaration:		
	str="Kendriya Vidyalaya Sangathan"		
	Write the output of: print(str[9:17]) (b) Write the output of the code given below:		
	lst1 = [10, 15, 20, 25, 30]		
	Ist1 = [10, 13, 20, 23, 30]		
	Ist1.insert(2, 3)		
	print (lst1[-5])		
37	Evaluate the following Python expression		
	print(12*(3%4)//2+6)		
	(a)12 (b)24 (c) 10 (d) 14		
38	Fill in the Blank		
	The explicit conversion of an operand to a specific type is called		
	(a)Type casting (b) coercion (c) translation (d) None of these		
39	Which of the following is not a core data type in Python?		
	(a)Lists (b) Dictionaries (c)Tuple (d) Class		
40	What will the following code do?		
	dict={"Exam":"AISSCE", "Year":2022}		
	dict.update({"Year":2023})		
	a. It will create new dictionary dict={" Year":2023}and old dictionary will be deleted		
	b. It will throw an error and dictionary cannot updated		
	C. It will make the content of dictionary as dict={"Exam":"AISSCE", "Year":2023}		
	d. It will throw an error and dictionary and do nothing		
41	What will be the value of the expression: 14+13%15		
42	Which of the following statement(s) would give an error after executing the following code?		

```
S="Welcome to class XII" # Statement 1
       print(S)
                        # Statement 2
       S="Thank you"
                            # Statement 3
       S[0]= '@'
                         # Statement 4
       S=S+"Thank you"
                             # Statement 5
       (a)
             Statement 3
                                                                 (b) Statement 4
                                                                 (d) Statement 4 and 5
       (b)
             Statement 5
       What will be the output of the following expression?
43
       24//6%3, 24//4//2, 48//3//4
         a)(1,3,4)
                    b)(0,3,4)
                                c)(1,12,Error)
                                                  d)(1,3,#error)
       Write the output of following code and explain the difference between a*3 and (a,a,a)
44
       a=(1,2,3)
       print(a*3)
      print(a,a,a)
     Identify the invalid Python statement from the following.
45
                                                     (d) 1 = b
                     (b) b1=1
                                      (c) b = 1
     Identify the valid arithmetic operator in Python from the following.
46
                 (b) <
                            (c) or
                                   (d) <>
     If Statement in Python is
47
                                 (b) selection statement (c) iterative
     (a) looping statement
                                                                              (d) sequential
     Predict the correct output of the following Python statement –
                                                                          print(4 + 3**3/2)
48
                            (c) 8.0
     (a) 8
                 (b) 9
                                        (d) 17.5
     Choose the most correct statement among the following –
49
     (a) a dictionary is a sequential set of elements
     (b) a dictionary is a set of key-value pairs
     (c) a dictionary is a sequential collection of elements key-value pairs
     (d) a dictionary is a non-sequential collection of elements
50
     Consider the string state = "Jharkhand". Identify the appropriate statement that will
     display the last five characters of the string state?
                         (b) state [4:]
     (a) state [-5:]
                                             (c) state [:4]
                                                                (d) state [:-4]
      What will be the output of the following lines of Python code?
51
     if not False:
        print(10)
     else:
        print(20)
     (a) 10
                  (b) 20
                              (c) True
                                          (d) False
     Find error in the following code(if any) and correct code by rewriting code and underline
52
     the correction;-
     x= int("Enter value of x:")
     for in range [0,10]:
          if x=y
     print(x + y)
          else:
                print(x-y)
     Find output generated by the following code:
53
     Str = "Computer"
     Str = Str[-4:]
     print(Str*2)
     Consider the following lines of codes in Python and write the appropriate output:
54
```

```
student = {'rollno':1001, 'name':'Akshay', 'age':17}
     student['name']= "Abhay"
     print(student)
    Find output generated by the following code:
55
     string="aabbcc"
     count=3
     while True:
       if string[0]=='a':
          string=string[2:]
       elif string[-1]=='b':
          string=string[:2]
       else:
          count+=1
          break
     print(string)
     print(count)
```