

## Pratap Public School, Panipat Mid-Term Exam, September 2023 Subject - Computer Science Class - XII

ime: 3 hours			M.M. 70	)
		Section A		
1. "Variable declaration	is implicit in Python." St	ate whether this stat	ement is true or false.	(1)
2. Which of the following	ng is an invalid datatype	in Python?		(1
(i) Set	(ii) None	(iii) Integer	(iv) Real	
3."in" is a logical operato	or in Python.			(1)
4. Which of the following	s is not a decision-makin	ng or selection statem	ent?	(1)
(i) If-elif statemen	t (ii) for statement	(iii) if-else statem	ent (iv) if stateme	ent
5. Which type of bracke	t is used to define a list?			(1)
(i) []	(ii) ()	(iii) { }	(iv) <>	
6. How is r+ file mode di	fferent from rb+ mode?			(2)
7. Given the following di	ctionaries (2)			
dict_exam={"Exar	n":"AISSCE", "Year":202	3}		
dict_result={"Tota	al":500, "Pass_Marks":16	55}		
Which statement will	merge the contents of b	oth dictionaries?		
(i) dict_exam.upda	te(dict_result)	(ii) dict_exam + dic	t_result	
(iii) dict_exam.add(	dict_result)	(iv) dict_exam.mer	ge(dict_result)	
8. Which of the following	g is a valid logical operate			(1)
(i) **		(iii) <	(iv) and	(-)
9. Write the type of toker	s (keyword identifier) fr			
	While	official following:		(1)
10. Which of these function	ons can be used to set a	file's current position?		(1)
		(iii) tell()	(iv) open()	(1)
11. What possible output(so of the program from the can be assigned to each	s) are expected to be disp se following Python code n of the variables Start ar	? Also specify the mini	e time of execution	

```
import random
                                                                                                             (2)
    VAL=[80,70,60,50,40,30,20,10]
    Start=random.randint(1,3)
    End=random.randint(Start,4)
      for I in range(Start, End+1):
    print (VAL[I],"*",end = "")
       (i) 40 * 30 * 20 * 10 *
                                                              (ii) 70 * 60 * 50 * 40 * 30 *
      (iii) 50 * 40 * 30 *
                                                             (iv) 60 * 50 * 40 * 30 *
12. Select the correct output of the code:
                                                                                                             (2)
      a = "Year 2022 at All the best" 1 2 a = a.split('2')
      b = a[0] + ". " + a[1] + ". " + a[3]
      print (b)
         (i) Year . O. at All the best
           (ii) Year 0. at All the best
           (iii) Year . 022. at All the best
          (iv) Year . 0. at all the best
13. Which of the following mode in file opening statement results or generates an error
                                                                                                       (1)
    if the file does not exist?
      (a) a+
                        (b) r+
                                                     (c) w+
                                                                              (d) None of the above
14. What does the following code display?
                                                                                                       (1)
    numbers = [1, 2, 3, 4, 5, 6, 7, 8]
    print(numbers[-4:])
15. What will the following code display?
   dct = {'January':1, 'February':2, 'March':3}
                                                                                                      (1)
    print(dct['February'])
16. Identify the valid declaration of values:
    values = ('physics', 'chemistry', 1997, 2000)
                                                                                                      (1)
    (i) list
                               (ii) dictionary
                                                           (iii) array
                                                                                     (iv) tuple 1
```

17. What will be th	e value of this expression:-			
4/2**3*2				(1)
(i) 16.0	(ii) 1.0	(iii) 1/4	(iv) 1/16	
List = ["P", 20, " Times = 0 Alpha Sum = 0 for I in range( Times = Times	1, 6, 2): + I + List[I - 1] + "#" st[I]	bython code:		(2)
19. The correct syr	ntax of seek() is:			(2)
(a) file_object.	seek(offset [, reference_point	t])		
(b) seek(offset	[, reference_point])			
(c) seek(offset,	, file_object)			
(d) seek.file_ol	bject(offset)			
Q. No. 20 and 21	are ASSERTION AND REASON	NING based questions. C	hoose the correct optio	n. (2)
(a) Both A and	d R are true and R is the corre	ect explanation for A		
(b) Both A and	d R are true and R is not the o	correct explanation for A		
(c) A is True b	ut R is False			
(d) A is false b	out R is True			
argument Reasoning (R):- D	the arguments in function cas as defined in the function do Ouring a function call, the argument(s).	efinition, such arguments	s are called positional arg	
which loo Reason (R): Th	: CSV (Comma Separated Valu ekslike a text file. ne information is organized wi d by comma.			(2)
22. Rao has writ	ten a code to input a number	and check whether the n	umber is prime number o	or not. (2)

```
23. Given below is a Python string declaration:
          myexam="@@CBSE Examination 2022@@"
          Write the output of: print(myexam[::-2])
24. Write the output of the code given below:
          my_dict = {"name": "Aman", "age": 26}
          my_dict['age'] = 27
          my_dict['address'] = "Delhi"
          print(my_dict.items())
25. Predict the output of the Python code given below:
      tuple1 = (11, 22, 33, 44, 55,66)
      list1 =list(tuple1)
      new_list = []
      for i in list1:
         if i%2==0:
          new_list.append(i)
      new_tuple = tuple(new list)
     print(new_tuple)
26. Predict the output of the Python code given below:
                                                                                             (3)
     def Diff(N1,N2):
     if N1>N2:
      return N1-N2
       else:
     return N2-N1
     NUM= [10,23,14,54,32]
       for CNT in range (4,0,-1):
     A=NUM[CNT]
     B=NUM[CNT-1]
     print(Diff(A,B),'#', end=' ')
                   OR
```

(2)

Predict the output of the Python code given below:	
tuple1 = (11, 22, 33, 44, 55,66)	
list1 =list(tuple1)	
new_list = []	
for i in list1:	
if i%2==0:	
new_list.append(i)	
new_tuple = tuple(new_list)	
print(new_tuple)	
27. What is the advantage of using a csv file for permanent storage? Write a Program in	(5)
Python that defines and calls the following user defined functions:	
(i) ADD() – To accept and add data of an employee to a CSV file 'record.csv'. Each record list with field elements as empid, name and mobile to store employee id, employee employee salary respectively.  (ii) COUNTR() – To count the number of records present in the CSV file named 'record.coo' OR  Give any one point of difference between a binary file and a csv file.  Write a Program in Python to display the pattern below:  1  12 12 123 1234 12345	name and
28. Write a function in Python to count the number of words in a text file 'STORY.TXT' which is starting with an alphabet 'a'.  OR	(3)
Write a function in Python to read lines from a text file STORY.TXT and display those lines which arenot starting with alphabet 'A'.	
29. Aman is a Python programmer. He has written a code and created a binary	(5)
file record.datwith employeeid, ename and salary. The file contains 10 records.	
He now has to update a record based on the employee id entered by the user and	

update the salary. The updated record is then to be written in the file temp.dat. The records which are not to be updated also have to be written to the file temp.dat. If the employee id is not found, an appropriate message should be displayed.

plete the following code based on the requirement given above:

AsaP	ython expert, help him to comple	te the following code based on the requirement given above:
import_		#Statement 1
def upda	ate_data():	
rec={}		
fin=ope	en("record.dat","rb")	
fout=o	pen("	#Statement 2
found=F	alse	#Statement 2
eid=int(i	input("Enter employee id to updat	e their salany "\\
while Tro	ue:	c titeli salary //
try:		
rec=		454-4
if rec["En	mployee id"]==eid:	#Statement 3
found=Tr		
rec["Salar	ry"]=int(input("Enter new salary ::	"),"
pickle	THE THE PARTY OF T	#Statement 4
else:		#Statement 4
pickle.dun	np(rec,fout)	
except:		
break		
if found==		
print("The	salary of employee id ",eid," has b	een undated ")
eise:		
print("No e	employee with such id is not found	")
fin.close()		
fout.close()		
(i) \ (ii)	Which module should be imported Write the correct statement require	in the program? (Statement 1) red to open a temporary file named temp.dat. (Statement 2) in Statement 3 to read the data (
(iii)	Which statement should Aman fill	in Statement 3 to read the data from the binary file, record.dat
а	and in Statement 4 to write the upo	lated data in the file and the data from the binary file, record.dat
(i)	UR	b.maf.
(ii)	What is picking and unpickling? What is Absolute and Relative p What is dump and load.	nath 2 Feed a
(iii)	What is dump and load.	ratils Explain with an example.

30. Write a method COUNTLINES() in Python to read lines from text file 'TESTFILE.TXT' and display the lines which are not starting with any vowel. (5) Example: If the file content is as follows: An apple a day keeps the doctor away. We all pray for everyone's safety. A marked difference will come in our country. The COUNTLINES() function should display the output as: - The number of lines not starting with any vowel - 1 OR Write a function ETCount() in Python, which should read each character of a text file "TESTFILE.TXT" and ther count and display the count of occurrence of alphabets starting with i or I. Example: If the file content is as follows: Today is a pleasant day. It might rain today. It is mentioned on weather sites The ETCount() function should display the output as: O/P: The line count should be 2. (2) 31. Which output lines of the following program will print the same results? tup1 = (10, 20, 30, 40, 50, 60, 70, 80, 90) print(tup1[5:-1]) # 1 print(tup1[5]) # 2 print(tup1[5:]) # 3 print(tup1[-4:8]) # 4 (iv) (1), (3) and (4) (iii) (2) and (3) (i) (1) and (2) (ii) (1) and (4) 32. Write a program in Python (2) (i) WAP to print 1-100 using while loop. (2) (ii) WAP to print area of triangle. (3) 33. What is the Python programming language? Write its advantage? (2) 34. What is the difference between a tuple and a list?