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MONTHLY TEST JULY 2023
COMPUTER SCIENCE (NEW)
CLASS – XII(083)

Max Marks : 40

Time: 1½ Hrs

Instructions: (a) All questions are compulsory. (b) All answers should be supported with examples of python codes.

1	<p>What will be the correct output :-</p> <p>S= "python is very funny language"</p> <p>print(S.split("n"))</p> <p>(i) ['pytho', ' is very fu', ' ', ' ', 'y la', 'guage']</p> <p>(ii) ['pytho', ' is very fu', ' ', 'y la', 'guage']</p> <p>(iii) ['pytho', ' is very fu', 'y la', 'guage']</p> <p>(iv) ['pytho', ' is very fun', 'y la', 'guage']</p>	1
2	<p>Select the correct output of the code:</p> <p>S= "WELCOME TO CLASS XII"</p> <p>L=S.split()</p> <p>S_new="#" .join([L[0],L[1].capitalize(),L[2].lower(),L[3].capitlize()])</p> <p>print(S_new)</p> <p>(i) Welcome#To#class#Xii</p> <p>(ii) Welcome#TO#CLASS#XII</p> <p>(iii) WELCOME#To#Class#Xii</p> <p>(iv)WELCOME#To#class#Xii</p>	1
3	<p>Which is the correct way to remove an item from dictionary i.e. Tuesday</p> <p>WEEKD={'mon':Monday, 'tue':Tuesday, 'wed',Wednesday}</p> <p>a. Del WEEKD('Tuesday') b. Del WEEKD['Tue']</p> <p>c. del WEEKD['tue'] d. del.WEEKD['tue']</p>	1
4	<p>Which function is used to read a single line from a file ?</p> <p>(a) Readline() (b) readline() (c) Readlines() (d) readfullline()</p>	1
5	<p>Consider the statements given below and then choose the correct output from the given options: s1="#G20 Presidency"</p> <p>s2="in the Vidyalyaya"</p> <p>s1_new=s1[-3:2:-2]</p> <p>s2_new=s2[-3:2:-3]</p> <p>print(s1_new+s2_new)</p> <p>(i) ndsr ayVh (ii) ceieP0yaie (iii) ceieP0aadVet (iv) nir0ayVh</p>	1
6	<p>Which of the following mode is used for both reading and writing in binary in file</p> <p>a. wr+ b. rb+ c. wb d. w+</p>	1

7	<p>Consider the code given below:</p> <pre> X=50 Y=0 def check(Y): _____ # missing statement X=Y+X check(30) print(X,Y) </pre> <p>Which of the following statements should be given in the blank for #Missing Statement, if the output produced is (80,0)</p> <p>options :</p> <p>(a) global Y (b) global X=50 (c) global X (d) global Y=-30</p>	1
8	<p>Which of the following functions (a) changes the position of file pointer and (b) returns its new position?</p> <p>(i) flush(), read() (ii) seek () , tell() (iii) tell() ,seek() (iv) read(), write()</p>	1
	<p>Q 9 and 10 are ASSERTION AND REASONING based questions. Mark the correct choice as</p> <p>(a) Both A and R are true and R is the correct explanation for A</p> <p>(b) Both A and R are true and R is not the correct explanation for A</p> <p>(c) A is True but R is False</p> <p>(d) A is false but R is True</p>	
9	<p>Assertion(A): Python Standard Library consists of various modules.</p> <p>Reasoning(R): A function in a module is used to simplify the code and avoids repetition.</p>	1
10	<p>Assertion (A): If you don't provide value to argument of function during function call then the function take its default value defined in the function.</p> <p>Reason (R): during functions call argument are required</p>	1
11	<p>Rewrite the following code in Python after removing all syntax error(s).</p> <p>Underline each correction done in the code:</p> <pre> Value=30 Def Display(Value): # Function Define for VAL in range(0,Value) if(val%4==0): print(VAL*4) elif(VAL%5==0): Print(VAL+3) Else: print(VAL+10) Display(30) # Function call </pre>	2

12	<p>The code given below accepts a number as an argument and returns the reverse number. Observe the following code carefully and rewrite it after removing all syntax and logical errors. Underline all the corrections made.</p> <pre> define revNumber(num) : rev = 0 rem = 0 While num > 0: rem ==num %10 rev = rev*10 + rem num = num//10 return rev print(revNumber(1234)) </pre>	2
13	<p>Write a function showstudent(NAMES) in Python, that takes the dictionary, NAMES as an argument and displays the names of students (in capitalize) whose names are longer than 4 characters. For example Consider the following dictionary NAMES={1:"AKASH",2:"AMIT",3:"AJAY",4:"ROHAN",5:"LAXMICHAND"}</p> <p>The output should be: Akash Rohan Laxmichand</p>	2
14	<p>Write a function lenWords(STRING), that takes a string as an argument and returns a tuple containing length of each word of a string.</p> <p>For example, if the string is "Come let us have some fun", the tuple will have (4, 3, 2, 4, 4, 3)</p>	2
15	<p>A list named studentAge stores age of students of a class. Write the Python command to import the required module and (using built-in function) to display the most common age value from the given list.</p>	2
16	<p>Predict the output of the following code</p> <pre> def Display(str): m=" " for i in range(0,len(str)): if (str[i].isupper()): m=m+str[i].lower() elif (str[i].islower()): m=m+str[i].upper() else: m=m+str[i-1] print(m) Display('Fun@Python3.7.0') </pre>	2

17	Predict the output of the following:- <pre>def change(P=5,Q=10): P=P/Q Q=P%Q return P A=100 B=10 A=change(A,B) print(A,B, sep='\$') B=change(B) print(A,B,sep='\$',end='###')</pre>	3
18	Write a function in python showthe() to read the text file “hello.txt” and find out how many lines begin with the word “The” or “THE” .	3
19	Write a function in python, vowelCount() that count and displays the number of vowels in the text file name “student.txt”	3
20a	How are text files are different from the Binary files?	2
20b	A Binary file, CINEMA.DAT has the following structure: {MNO: [MNAME, MTYPE]} Where MNO – Movie Number MNAME – Movie Name MTYPE is Movie Type Write a user defined function, findType(mtype), that accepts mtype as parameter and displays all the records from the binary file CINEMA.DAT, that have the value of Movie Type as mtype.	3
21	<p>Arun, during Practical Examination of Computer Science, has been assigned an incomplete search() function to search in a pickled file student.dat. The File student.dat is created by his Teacher and the following information is known about the file.</p> <ul style="list-style-type: none"> • File contains details of students in [roll_no,name,marks] format. • File contains details of 10 students (i.e. from roll_no 1 to 10) and separate list of each student is written in the binary file using dump(). <p>Arun has been assigned the task to complete the code and print details of roll number 1.</p> <pre>def search(): f = open("student.dat",____) #Statement-1 while True: rec = pickle.____ #Statement-2 if(____): #Statement-3 print(rec) _____ # statement -4</pre> <ol style="list-style-type: none"> 1. In which mode Arun should open the file in Statement-1? 2. Identify the function(with argument),to be used at blank space in line marked as Statement-2 3. What will be the suitable code for blank space in line marked as Statement-3 4. Which statement Arun should use at blank space in line marked as Statement4 to close the file 	4