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PREBOARD Term I (Theory) - 2021

SUBJECT: COMPUTER SCIENCE (083)

TIME: 1.5 hours

Class: XII

Maximum Marks: 35

SET-I

General Instructions:

1. This question paper contains 3 (A, B and C) sections.
2. Section A, consists of 25 Questions (1-25). Attempt any 20 questions
3. Section B, consists of 24 Questions (26-49). Attempt any 20 questions
4. Section C, consists of 6 case study based Questions (50-55). Attempt any 5 questions
5. All questions carry equal marks

Qn.No	Section - A
	<p>This section consists of 25 Questions(1 to 25) . Attempt any 20 Questions from this section. Choose the best possible options</p>
1	<p>Find the valid keyword from the following:</p> <ul style="list-style-type: none"> a. Float b. breaks c. True d. false
2	<p>Consider the following code and answer the questions that follow:</p> <pre>dict2 = {'CS': 90, 'Phy': 92, 'Chem': 95, 'Eng': 93}</pre> <p>Ashwin needs to update the dictionary dict2. He has written the following command:</p> <pre>dict2.update({'CS':95, 'Eng':94})</pre> <p>What will the above code do?</p> <ul style="list-style-type: none"> (a) It will throw an error as dictionary cannot be updated (b) it will not throw any error , but it will not do any changes in dict2 (c) It will create a new dictionary as <pre>dict2=({'CS':95, 'Eng':94})</pre> (d) It will simply update the dictionary as: <pre>dict2={'CS': 95, 'Phy':92, 'Chem':95, 'Eng':94}</pre>
3	<p>Predict the output:</p> <pre>d2={'Rekha': 27 , 'Sharma':22, 'Hridesh':25, 'Shubham':23} for x in sorted(d2.values()): print(x, end=" ")</pre> <p>(a) 21 22 23 24</p>

	<p>(b) 27 25 23 22 (c) 23 25 22 27 (d) 22 23 25 27</p>
4	<p>Identify the correct statement:</p> <p>a) write() writes a tuple in file b) write() writes a string in a file c) writelines() writes a string in file d) writelines() writes a tuple in a file</p>
5	<p>Which of the following commands is used to open the file “marks.txt” for writing only in text format</p> <p>(a) fileout= open("marks.txt",'w') (b) fileout= open("marks.dat",'ab') (c) fileout= open("marks.DAT",'wb+') (d) fileout=open('stud.txt,'wb')</p>
6	<p>Consider that the position of the file pointer is at the beginning of the 5th line in the text file “story.txt” stored in f2 file object:</p> <p>Choose the right option can be used to read all the remaining lines.</p> <p>(a) f2.reads() (b) story.reads() (c) story.readlines() (d) f2.readlines()</p>
7	<p>Ishitha is learning to work with binary files and text files.</p> <p>Her teacher has given the following function with some wrong code , which is creating a text file named as “dramas.txt” and then opens , displays the entire contents in capital letters .</p> <p>Identify the correct option/s from the following to open the file in read mode:</p> <p>i. fob =open('Dramas.txt','w') ii. fob=open('dramas.txt','r') iii. fob=open('dramas.dat','w') iv. fob=open(drama.dat','r+')</p>

	<p>(a) Only ii (b) Both (i) and (iii) (c) (i) (ii) and (iii) (d) (i) only</p>
8	<p>Consider the following program snippet:</p> <pre>def power(m,n): #1 y=m**n #2 return y #3 def calc(val): #4 a=power(val,2) #5 return a #6 num=5 #7 answer=calc(num)+power(3,3) #8 print(answer) #9</pre> <p>Predict the flow of execution</p> <p>(a) 1->4->7->8->5->2->3->6->2->3->9 (b) 1->4->8->7->5->2->6->3->2->3->9 (c) 7->8->4->5->6->3->2->1->3->4->9 (d) None of these</p>
9	<p>Which of the following list of operators has highest precedence?</p> <p>+ , // , % , <<, >>, **, , -</p> <p>(a) % (b) // (c) ** (d) <<, >></p>
10	<p>Consider two lists:</p> <p>L1=['Python', 'is', 'easy'] L2=['Python', ['is', 'open'], 'soource']</p> <p>Which of the following expression will cause an error?</p> <p>(a) L1==L2</p>

	<p>(b) L2.pop() (c) L2.append('welcome') (d) L2[1].upper()</p>
11	<p>Which of the following statement is correct in the case of text files:</p> <p>(a) To open a file in text format, add 'b' to the mode parameter. (b) The 'wb' mode opens the file in text format for writing (c) In text files, each line of text is terminated with a EOL which is the new line character ('\n') in python by default. (d) When text files are opened using any text editor, the data is unrecognizable.</p>
12	<p>What is the importance of flush()</p> <p>(a) Returns whether the file allows us to change the file position (b) Returns whether the file stream can be read or not (c) Clears the internal buffer (d) Resizes the file to a specified size</p>
13	<p>Identify the correct statement:</p> <p>(a) The load() method of Python pickle module reads the pickled byte stream of one or more python objects from a file object. (b) The dump() method of Python pickle module reads the pickled byte stream of one or more python objects from a file object. (c) The pickle module will not keeps track of the objects it has already serialized. (d) To de-serialize a data stream, you call the dump() function.</p>
14	<p>Consider the program snippet :</p> <pre>F1 = open("books.txt", "rb") F1.seek(-10, 2) print(F1.tell()) F1.close()</pre> <p>What will be the output of the above program?</p> <p>(a) Unpredictable</p>

	<p>(b) 12 (c) 2 (d) -8</p>
15	<pre>x = 50 def func(x): print(x) x = 2 func(x) print(x)</pre> <p>What will be the value of x after executing the function?</p> <p>(a) 50,2 (b) 50,50 (c) 2,50 (d) 2,2</p>
16	<p>Choose the incorrect statement:</p> <p>(a) Having a positional arguments after keyword arguments will result into error (b) An argument list must contain keyword arguments followed by positional arguments (c) Keyword arguments should be taken from the required arguments preferably (d) Combination of multiple arguments in a function call will not create error</p>
17	<p>Go through the given function headers. Choose which of the option will cause the error?</p> <p>(a) def display(x,y=1): (b) def display(x=1,y=2): (c) def display(x=1,y=3,z=3); (d) def display(x=1,y=2,z=3, a);</p>
18	<p>Select the function that allows to write a single record into each row in CSV file.</p> <p>(a) write() (b) writerows()</p>

	<p>(c) <code>writerec()</code> (d) <code>writerow()</code></p>
19	<p>Rajshankar , a student of class 12th, is learning CSV File Module in Python. During examination, he has been assigned to create a CSV File and store some items using 'Item.csv'. Help him to open the file which creates the desired CSV File.</p> <p>CSV File:</p> <pre>Rollno,Name,Marks 1001,Nirmal ,90.0 1003,Jaya,95.0 1004,Roshan,81.0 1007,Sadaf,88</pre> <p>Choose the right statement to open the file:</p> <ul style="list-style-type: none"> (a) "item.csv","r" (b) "item.dat","w" (c) "item.csv","w" (d) "items.csv","w"
20	<p>Identify the correct statement:</p> <ul style="list-style-type: none"> (a) CSV files should not open with new line argument to suppress EOL translation (b) CSV files should be opened with new line argument to suppress EOL translation (c) CSV files stores the information in ASCII or Unicode characters (d) The absolute paths are from the topmost level of the directory structure.
21	<p>What is the difference between r+ and w+ file modes?</p> <ul style="list-style-type: none"> (a) In w+ mode, the pointer is initially placed at the end of the file , in r+ the file pointer is placed at the beginning of the file (b) In w+ mode, the pointer is initially placed at the beginning of the file , in r+ the file pointer is placed at the end of the file (c) It depends upon the Platform (d) No difference

22	<p>Evaluate the expression given below :</p> <p>X=20</p> <p>Y=25</p> <p>X % Y // X</p> <p>(a) 1 (b) 1.0 (c) 0.0 (d) 2.0</p>
23	<p>Select the right command to read each record for the binary file object f1 from “movies.dat”?</p> <p>(a) f1=open("movies.dat",'rb') (b) pickle.loads(f1) (c) pickle.dump(f1) (d) pickle.load(f1)</p>
24	<p>Which value types does input() returns?</p> <p>(a) double (b) float (c) boolean (d) string</p>
25	<p>Name the method that removes all items from the dictionary and the dictionary becomes empty?</p> <p>(a) clear() (b) pop() (c) delete() (d) truncate()</p>

<p style="text-align: center;">Section – B</p>	
<p>This Section consists of 24 Questions(26 to 49). Attempt any 20 questions.</p>	
26	<p>Predict the output of the following Python snippet:</p> <pre>data={ ' Name ' : ' Karthik ' , 'age' : 25 } x=data.copy() print(id(x)==id(data))</pre> <p>a) 1 b) 0 c) True d) False</p>
27	<p>The file “quotes.txt” contains the following:</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>“I think... if it is true that there are as many minds as there are heads, then there are as many kinds of love as there are hearts.”</p> </div> <p>Considering the given file, What output will be produced by the following code:</p> <pre>ob=open("quote.txt",'r') l1=ob.readline() l2=ob.readline() l3=ob.read(5) print(l3) ob.close() (a) 5 (b) then (c) i thin (d) there</pre>
28	

	<p>Identify the output of the following:</p> <pre>t1=(10,13,14,20,34,46,54) t1[::3]</pre> <p>a) 10,20,54 b) (10,20,54) c) [10,14,34] d) (10,14,34)</p>
29	<p>Predict the output:</p> <pre>x=11 y=5 for i in range(x-y * 2): print(i)</pre> <p>(a) 0 (b) 1 (c) 0 1 (d) 0 1 2 3 4 5</p>
30	<p>Identify the output of the following Python snippet:</p> <pre>count=1 while(count<5): print("Python") count+=3</pre> <p>(a) Python (b) Python Python (c) Python Python (d) Python Python Python Python Python</p>
31	<p>Predict the Output:</p> <pre>l1=[30,40,50,60,70] l1.append([100,200]) l1.insert(1000,2000) print(l1[5])</pre> <p>(a) [100,200]</p>

	<p>(b) [[100,200,1000,2000] (c) [100] (d) [200]</p>
32	<p>Rohith , a student of class 12th, is learning binary file handling in Python. During examination, he has been assigned an incomplete python code to create a binary file “records.dat” (content shown below). Help him to identify the missing code in statement 1.</p> <pre>import pickle str=" " f1=open("records.dat",'rb') str=..... #statement 1 l1=str.split("o") print(l1[1])</pre> <p>(a) pickle.dump() (b) pickle.dump(f1) (c) pickle.load(str) (d) pickle.load(f1)</p>
33	<p>What will be stored in the file “employee.csv” after the following code is executed?</p> <pre>details=[‘Chennai’,’Teacher’,6000] import csv f1=open(“employee.csv”,’w’) writer=csv.writer(f1,delimiter=’ ’) writer.writerow([‘Area’,’Name’,’Salary’]) writer.writerows(details)</pre> <p>(a) ‘Chennai’,’Teacher’,6000 (b) [‘Area’,’Name’,’Salary’] (c) [[‘Area’,’Name’,’Salary’]] (d) ‘Area’,’Name’,’Salary’ ‘Chennai’,’Teacher’,6000</p>

34	<p>What will be the output of the following code:</p> <pre>def my_func(): x = 10 print(x) x = 20 my_func() print(x)</pre> <p>(a) 10 20 (b) 20 10 (c) 10 10 (d) 20 20</p>
35	<pre>print([8.00/(2.0+2.0),4.00/2.0+2.0,6.00/2.0/2.0])</pre> <p>Evaluate the above expression and predict the output:</p> <p>(a) [1.0, 4.0, 1.5] (b) [2.0, 4.0, 1.5] (c) [2, 4, 1] (d) [4.0, 1.0, 1.5]</p>
36	<p>Predict the output:</p> <pre>def sum(x, y): return x + y</pre> <pre>total=sum(10, sum(5, 10)) print(total)</pre> <p>(a) 25 (b) 10 (c) 5 (d) 15</p>

37	<p>Consider the program code and answer the following:</p> <pre>import random str="CBSEONLINE" num=random.randint(0,3) n=9 while str[n] != 'L': print(str[n]+str[num]+\$',end="") num=num+1 n=n-1</pre> <p>What are the possible outcomes executed from the following code?</p> <p>(1) NS\$IE\$LO (2) EC\$NB\$IS\$ (3) EE\$NO\$IN\$ (4) LE\$NO\$ON\$</p> <p>(a) (2) and (3) only (b) (1),(2),(3) (c) (4) only (d) None of these</p>
38	<p>Choose the possible output of the following Python code:</p> <pre>import random l1=["apple","orange","banana","grapes"] for i in range(3): j=random.randint(1,2) print(l1[j],end='#')</pre> <p>(a) banana#banana#orange (b) orange#orange#orange# (c) grapes#grapes#orange (d) grapes#orange#banana#</p>
39	<p>What will be the output of the following Python function:</p> <pre>def display(str): val=""</pre>

	<pre> l=range(len(str)-1) for i in l: if(str[i]==str[i+1]): val+=val[i].lower() else: val+=str[i] return val print(display("AdAmaNtine")) (a) adamantin (b) ADAMANTINE (c) AdAmaNtine (d) AdAmaNtin </pre>
40	<p>Consider the file points.txt contains the following contents:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>“There have been tyrants and murderers and for a time they seem invincibles , but in the end, they always fall... think of it, always ..By Gandhiji”</p> </div> <p>What will be the output of the following code?</p> <pre> def displaywords(): count=0 f1=open("points.txt",'r') l1=f1.read() w1=l1.split() for x in w1: if(len(x)>9): print(x) f1.close() displaywords() (a) invisibles (b) fall... (c) tyrants (d) invincibles </pre>

41	<p>Consider the file “notes.txt” contains the following data:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>"Education is the manifestation of perfection"</p> </div> <p>What will be the output of the following:</p> <pre>f3=open("notes.txt") x=f3.readline() print(x.title()) f3.close()</pre> <p>(a) Education is the manifestation of perfection (b) Education Is The Manifestation Of Perfection (c) Perfection (d) perfection</p>
42	<p>Predict the output:</p> <pre>ans="CBSE Exam 2021" str="" for i in range(len(ans)): if(ans[i].islower()): str=str+ans[i].upper() elif(ans[i].isupper()): str=str+ans[i].lower() elif(ans[i].isdigit()): str=str+ans[i] else: str=str+"#" print(str)</pre> <p>(a) CBSE##Exam##2021 (b) CBSE Exam 2021</p>

	<p>(c) cbse#eXAM#2021 (d) CBSE#eXAM#2021</p>
43	<p>Consider content in the file “works.txt”</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>"Research an attitude of inquiry or It is the frame of mind or it is the sense of development"</p> </div> <p>What will be the output of the following code?</p> <pre>f4=open("works.txt",'r') a=f4.readline() b=a.count('or',15) print(b) f4.close()</pre> <p>(a) 1 (b) 3 (c) 2 (d) 0</p>
44	<p>Identify the local names from the following Python code:</p> <pre>aim="Data Analysis" position=100 level=0 def search(): max=level+5 print(len(aim)==0) return max result=search() print(result)</pre> <p>(a) aim (b) position (c) result (d) max</p>

45	<p>Consider the file “statements.txt”: It contains the following data:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>“Observation should be specific and systematic”</p> </div> <pre> f5=open("statements.txt",'r') t1=tuple('and') count=0 m=f5.read() for x in m: if(x in t1): count+=1 print(count) f5.close() </pre> <p>(a) 5 (b) 7 (c) 2 (d) 0</p>
46	<p>By population we mean the aggregate or totality of objects\n or individuals regarding which inferences are to be made in a sampling study.\n The standard error of any statistic is the standard\n deviation of its sampling distribution... by 100 books.com</p> <p>Consider the above lines in the file ”rec.txt” What will be the output of the following code??</p> <pre> fh=open("rec.txt",'r') count=0 d1=fh.readlines() count=0 for x in d1: if(x[0]!='p'): count+=1 print(count) fh.close() </pre>

	<p>(a) 3 (b) 1 (c) 2 (d) 0</p>
47	<pre>import sys f1=open("quotes.txt",'r') l1=f1.readline()# statement 1 f1.close()</pre> <p>Identify the missing statement from the following:</p> <p>(a) sys.stdin.write(l1) (b) sys.stdin.read(f1) (c) sys.stdout.write(l1) (d) sys.stdout.write(f1)</p>
48	<p>Pick out a relevant statement to write data to the file to fill the statement 1 :</p> <pre>import pickle data=['python',100,[20,25,30],200] with open('docs.dat','wb') as f1: _____ # statement 1 f1.close()</pre> <p>(a) pickle.load(f1) (b) pickle.load(data,f1) (c) pickle.dump(f1,data) (d) pickle.dump(data,f1)</p>
49	<p>Predict the output:</p> <pre>d1={'name':'Sharmila','age':23,'salary':30000} d1.pop('salary') d1.pop('salary',"Error")</pre>

	<p>(a) Error (b) Key Error (c) 30000 (d) salary</p>
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<p style="text-align: center;">Section C Case Study Based Questions</p>	
This Section Consists of 6 questions(50-55). Attempt any 5 questions	
	<p>Arjun , a student of class 12th, is learning CSV File Module in Python. During examination, he has been assigned an incomplete python code (shown below) to create a CSV File 'item.csv' (content shown below). Help him in completing the code which creates the desired CSV File.</p> <p>CSV File:</p> <p>Item_code, Description, Price 101, Eraser, 10.0 103, Pencil, 15.0 104, Ruler, 18.0 107, Note_Book, 50</p> <p>Incomplete Code :</p> <pre> import _____ #Statement-1 f1=open(_____, _____) #Statement-2 iwriter=..... # Statement -3 ans='y' itemrec=[.....] #Statement-4 print("enter item details..") while ans=='y': icode=input("enter item code") desc=input("enter description..") price=float(input("enter price")) # Statement 5 ans=input("want to enter more items..??(y/n ") else: _____ #Statement 6 print("records written successfully...") f1.close() </pre>
50	Identify the suitable code for blank space in line marked as Statement-1 (a) csv file

	<p>(b) CSV (c) csv (d) Csv.*</p>
51	<p>Choose the missing code for blank space in line marked as Statement-2</p> <p>(a) "item.csv","r" (b) "items.dat","w" (c) "items.csv","w" (d) "item.csv","w"</p>
52	<p>Identify the suitable code for blank space in line marked as Statement-3</p> <p>(a) iwriter=csv.writer(f1) (b) iwriter=csv.writes(f1) (c) iwriter=csv.writerrec(f1) (d) iwriter=csv.writerow(f1)</p>
53	<p>Select the values in the list that should be used in the blank space of line marked as Statement-4</p> <p>(a) [item,desc,price] (b) ['item' , 'desc' , 'price'] (c) ['Item_code','Description','Price'] (d) [icode,desc,price]</p>
54	<p>Identify the suitable code for blank space in line marked as Statement-5</p> <p>(a) itemrec.append([icode,desc,price]) (b) itemrec.insert([icode,desc,price]) (c) itemrec.writer ([icode,desc,price]) (d) itemrec.writerow([icode,desc,price])</p>
55	<p>Identify the suitable code for blank space in line marked as Statement-6</p> <p>(a) iwriter .writerows()</p>

	<ul style="list-style-type: none">(b) iwriter .writes(itemrec)(c) iwriter .writerec(itemrec)(d) iwriter .writerows(itemrec)
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***** ALL THE BEST *****