COMMON PRE-BOARD EXAMINATION 2023-24

COMPUTER SCIENCE (083)

Date:30/01/2024

Time Allowed:3 hours

Class: XII

Maximum Marks: 70

 Secti Secti Secti All Q. No. 1. 2. 3. 4. 	ion C, consists of 5 questions (26 to 30). Each question carries 3 Marks. ion D, consists of 2 questions (31 to 32). Each question carries 4 Marks. ion E, consists of 3 questions (33 to 35). Each question carries 5 Marks. programming questions are to be answered using Python Language only SECTION –A Question State True or False "Dictionaries in Python are mutable but Strings are immutable." command is used to remove database from MySQL. a) update b) remove c) alter d) drop Find the invalid identifier from the following a) deF b) For c) bonus d) 2#Name	Marks 1 1 1 1 1 1 1
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1. 2. 3. 4.	State True or False "Dictionaries in Python are mutable but Strings are immutable."	1 1 1 1
2. 3. 4.	"Dictionaries in Python are mutable but Strings are immutable."	1
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3. 4.	Find the invalid identifier from the followinga) deFb) Forc) bonusd) 2#Name	1
4.	a) deF b) For c) bonus d) 2#Name	
4.		
	Identify the output of the following Python statements, where L1 is a List.	1
	L1=[6,4,2,9,7]	
	print(L1[3:]="89")	
	a) $[6,4,2,9,7,89]$ b) $[6,4,2,89]$ c) $[6,4,2,89]$ d) $[6,4,2,89]$	
	d) [0,4,2,89] d) [0,4,2,8,9]	
5.	Which of the following is not a function/method of a file object in python?	1
	a) read()	
	b) writelines()	
	c) dump()	
	d) readines()	
6.	Given the following dictionary	1
	Day={1:"January",2:"Feb",3:"March"}	
	Which statement will return "March"?	
	a) Day.pop()	
	b) $Day.pop(2)$	
	d) Day.pop(3)	
7.	For a function header as follows	1
· •	def Calc (X, Y=20) :	1
	Which of the following function calls will give an error?	

	b $Calc(x=15, y=25)$	
	0. $Calc(x=25)$	
	$\frac{d}{d} \operatorname{Calc}(\mathbf{y}=25)$	
8	Which of the following is an example of an identity operators in python?	1
0.	which of the following is an example of an identity operators in python: a) is (a, b) on (a, b) in (a, b) or (a, b)	1
0	a) is b) oil c) iii d) iiot iii	1
9.	protocol allows a user to log on to another user system and perform	1
	various functions such as accessing thes from of sharing thes to the	
	remote system.	
	D. IELNEI	
	C. SMIP	
10		1
10.	What will the following expression be evaluated to in Python?	I
	$\frac{\text{print}(101(15.074 + 8 + 3.072 + 10.0*6))}{10.72} = 10.72 \text{ or}$	
1.1	a) $\frac{1}{2.75}$ b) $\frac{1}{2.0}$ c) $\frac{1}{2}$ d) $\frac{1}{3.0}$	1
11.	Identify the output of the following Python Statements.	I
	$S = G = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right)$	
	L=list(S.split(*#,2))	
	print(L)	
	$a \in [0, K, E^{\#}A^{\#}I^{\#}]$	
	$\begin{bmatrix} 0, \begin{bmatrix} \mathbf{U}, \mathbf{K}, \mathbf{E}, \mathbf{A}, \mathbf{I} \end{bmatrix}$	
	$C = \begin{bmatrix} 0 \# K \\ E \# A \# I \# \end{bmatrix}$	
10	0. Error The second of fear the second in the select list on th	1
12.	I he aggregate functions can only be used in the select list or clause of a select	1
	query.	
	a. WHEKE	
13	Which of the following statement(s) would give an error after executing the following	1
15.	code?	1
	S="Good morning" # Statement 1	
	print(S) # Statement 2	
	S="All the Best " # Statement 2	
	S= All the Dest # Statement 5	
	S[0] = # # Statement 4 S=S + hello # Statement 5	
	$5-5$ incho π statement 5	
	a) Statement 3 b) Statement 4 c) Statement 5 d) Statement 4 and 5	
14	If column "Salary" from emp contains the data set (15000 28000 17500 Null 55000)	1
1	what will be the output after the execution of the given query?	1
	SELECT AVG(Salary) FROM emp:	
	a) ERROR	
	b) NULL	
	c) 26275	
	d) 23100	
15.	is a communication medium, classified as long-distance high	1
	speed unguided medium.	•
	a) Optical fiber b) Microwave c) Satellite Link d)WIMAX	
16.	fetchall() method fetches all the row in a ResultSet and returns a	1
	a) List of Tuples b) Tuple of Lists	-

	Q.17 and 18 are Assertion (A) and Reasoning (R) based questions. Mark the correct	
	choice as	
	a) Both (A) and (R) are true and (R) is the correct explanation for (A).	
	b) Both (A) and (R) are true and (R) is not the correct explanation for (A).	
	c) (A) is true but (R) is false.	
	d) (A) is false but (R) is true.	
17.	Assertion (A) :- A default argument can be skipped in the function call statement.	1
	Reasoning (R) :- The default values for parameters are considered only if no value is	
10	provided for that parameter in the function call statement.	1
18.	Assertion (A): CSV files are delimited files that store tabular data where comma	1
	delimits every value.	
	Reason (R): For writing onto a CSV file, user data is written on txt. writer object which	
	converts the user data into delimited form and writes it on to the csv file.	
	SECTION – B	
19.	Write one advantage of star topology over bus topology and one advantage of bus	2
	topology over star topology	
	OR	
	Suzuka, a freelance web site developer, has been assigned a task to design few web	
	pages for a book shop. Help Suzuka in deciding out of static web page and dynamic	
	web page, what kind of web pages should be designed by clearly differentiating	
20	between static and dynamic web pages on at least two points.	
20.	The following Python code is supposed to print the largest word in a sentence but	2
	there are few errors. Rewrite the code after removing errors and underline each	
	Correction made.	
	Sur-Input(Enter a sentence)	
	word-split() print(word)	
	maxlen=0	
	largest=""	
	for i in word:	
	l=len(i)	
	if(l>maxlen):	
	largest=1	
	print(largest)	
<u></u>		
21.	(a) A List is declared in Python as below: 1 + 524.65 = 77.12 + 0.112.211	2
	[myiist=[34,05,-7/,12,0,115,51]	
	rind the output of the command.	
	inyiist[.5]	
	b) Suppose a Tuple is declared as follows:	
	mytup=(32,93,45,71,-89,111,100)	
	Guess the minimum value for K so, exception handling will print the IndexError	
	Message.	
	frv	
	for i in range(K):	
	print(mytup[i])	
	except IndexError:	
	except IndexError: print("It's out of range now so stop")	

	OR	
	(a) Write a Python statement to display alternate characters of a string from the end,	
	named my_exam.	
	For example:	
	if my_exam="Russia Ukraine"	
	The statement should display "eirUasu"	
	(b) Identify the output of the following Python statements.	
	$\mathbf{x} = [[10.0, 11.0, 12.0], [13.0, 14.0, 15.0]]$	
	y = x[1][2]	
	print(y)	
	a. 12.0	
	b. 13.0	
	c. 14.0	
	d. 15.0	
22.	If given A=2, B=1.0, C=3.0, What will be the output of following expressions:	2
	(i) print((A>B) and (B>C) or(C>A))	
	(ii) print(A**B**C)	
23.	What possible outputs are expected to be displayed on the screen at the time of	2
	execution of the program from the following code? Also specify the minimum and	
	maximum values that can be assigned to the variable c.	
	import random	
	temp = [10.20.30.40.50.60]	
	c=random.randint(0.4)	
	for i in range(0, c):	
	print(temp[i], "#")	
	a) 10#20# b) 10#20#30#40#50#	
	c) 10#20#30# d) 50#60#	
	OR	
	Give output of the following:	
	def ChangeLst():	
	L2=[]	
	for i in range(1,10):	
	L.append(i)	
	for i in range(10,1,-2):	
	L1.append(i)	
	for i in range(len(L1)):	
	L2.append(L1[i]+L[i])	
	L2.append(len(L)-len(L1)	
	print(L2)	
24	There is a column mark in the table student. The following two statements are giving	2
	different outputs What may be the possible reason?	
	anterent outputs. What may be the possible reason.	1
2	select count(*) from student;	
2	select count(*) from student; select count(mark) from student;	

	Field Type Null Key Default Extra 	
	 (i) She forgot to make admno attribute as the Primary key. Write the SQL Query to make admno as the Primary key after the table has been created. (ii) She now wants to add a new column mark of integer data type with not null values. Write SOL query to do so. 	
25.	Predict the output of the Python code given below: def runme(x=1, y=2): x = x+y y+=1 print(x, '\$', y) return x,y a,b = runme() print(a, '#', b) runme(a,b) print(a+b)	2
	SECTION C	
26.	<pre>What will be the output of the following code? value = 100 def display (N): global value value = 150 if N%7 == 0: value = value + N else: value = value - N print (value, end = '#') display (50) print (value)</pre>	3
27.	Consider the table given below and write the output of the SQL queries that follow. SCHOOL LOCATION Toll name mark 1 Akash 90 2 Namit 95 3 Anit 87 4 Anuj 88 (i) select distinct(city) from location; (ii) select s.name,l.city from school s, location 1 where s.roll=l.roll and l.city like "%h"; (iii) select l city avg(s mark) from school natural join location group by city :	3
28.	Write a function COUNTTEXT(), which reads a text file Book.txt and displays all the words of the file whose length is more than 3 or those which start with 'A' or 'a'	3

	Write a Book.tx For exa: Then th	function COU t whose second mple, if the Bo e output should	INTWORE l last chara ok.txt file o l be: 2	O(), which c cter is 'r'. contains "Ind	counts all the	words from the text file ry. They are studying."	
29.	Consid	ler the table Pe	rsonal give Table : ITE	n below: M			3
	SNo	Itemname	Type	Price	Stockdate		
	1	Chaises	Living	11500.58	2020-02-19		
	2	Accent Chairs	Living	31000.67	2021-02-15		
	3	Baker Racks	Kitchen	25000.623	2019-01-01		
	4	Sofa	Living	7000.3	2020-10-18		
	5	Nightstand	Bedroom	NULL	2021-07-23		
	Based o (i) Dele (ii) Incr (iii) Add	n the given tab te the record of ease the price of d a column nan	ie, write So items who of all living the city with	QL queries for ose price is no products by datatype va	or the followin ot known. 15%. riable characte	g: r of size 20.	
	From th Display appropr For exat The stat [2,28,12 The out 52 12 28 2 Stack E	is list push all j the stack usin iate error mess mple: Num= [2 ck should conta 2,52] put should be: mpty	positive even ng POP(), age. 2,28,45,67, .in:	en numbers if if it has at -32,12,3,52]	nto a stack imp least one eler	lemented by using a list. nent, otherwise display	
2 1	Conside	r the tables SE		SECTION I) Taivan halaw		4
	Write S (i)To di (ii)To d every R (iii) To (iv) To	QL queries for splay the name isplay the RecI ecipient. display Recipio display number	the follow s of all Ser D, Sender ent details i	ing: iders from M Name, Sende in ascending ents from eac	umbai. rAddress, Rec order of RecN h City.	Name, RecAddress for ame.	

SenderI	D S	nderName	SenderAddress	Send	lerCity
ND01	R	Jain	2, ABC Appts	New	Delhi
MU02	H	Sinha	12, Newtown	Mun	ıbai
MU15	S	Jha	27/A, Park Stree	t Mun	ibai
ND50	1	Prasad	122 - K, SDA	New	Delhi
		Ta	ble : RECIPIEN	T	
RecID	SenderI	RecName	e RecAddress		RecCity
KO05	ND01	Bajpayee	5, Central Ave	enue	Kolkata
ND08	MU02	S Mahaja	n 116, A Vihar		New Delhi
MU19	ND01	H Singh	2A, Andheri E	ast	Mumbai
MU32	MU15	PK	B5, C S Term	inus	Mumbai
272.40	210.00	Swamy			
ND48	ND50	S Tripath	1 13, BI D, May Vihar	ur	Delhi
			, inter		Denn
Write a functions	Program s:	n Python t	hat defines and	calls th	e followi
(1) add()	- To acco	pt and add	data of an emp	oloyee t	o a CSV
Each rec	ord consi	sts of a list	with field elem	nents as	[fid, fnai
furniture	id, furnit	ure name a	and furniture pr	ice resp	ectively.
(ii) searc	h()- To d	splay the r	ecords of the fu	ırniture	whose p
<u> </u>		1	SECTI	ION E	
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	 a) Suggest the most suitable place (i.e., Unit/Building) to install the server of this Institute.Justify. b) Suggest an ideal layout for connecting these Unit/Building for a wired connectivity. c) Suggest the devices to be installed in each of these buildings for connecting computers installed within each of the units out of the following: Modem, Switch, Gateway, Router d) Suggest an efficient as well as economic wired medium to be used within each unit for connecting computer systems out of the following network cable: Co-axial Cable, Ethernet Cable, Single Pair Telephone Cable. e) The institute is planning to connect its admission office in Bangalore, which is 1960km from institute. Which type of network out of LAN, MAN or WAN will be formed? Justify your answer. 	
34.	i) What is the advantage of using 'with' clause in file handling for opening a file?	2+3
	ii)A binary file "STUDENT.DAT" has structure [admission_number, Name, Percentage]. Write a function countrec() in Python that would read contents of the file "STUDENT.DAT" and display the details of those students whose percentage is above 75. Also display number of students scoring above 75%. OR	
	i) What is the significance of 'r+' and 'a+' in file handling?	
	ii) Mr. Pratham is a python programmer. He wants to write a code for searching a record from a binary file "student.dat" with Rollno and Name of the students. The file contains 05 records, as a python expert help him to write a code where name has to be searched from file based on Rollno entered by user if not found then display "No	
	data found".	
35.	 (i) Explain char () and varchar () with respect to RDBMS using an example. (ii) Samar wants to write a program in Python to insert the following record in the table named SPORTS in GAME database, CBSE: 	1+4=5
35.	 (i) Explain char () and varchar () with respect to RDBMS using an example. (ii) Samar wants to write a program in Python to insert the following record in the table named SPORTS in GAME database, CBSE: spno (Sport_No)- integer 	1+4=5
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- Med_id integer
- Name string
- M_D Date

Note the following to establish connectivity between Python and MySQL:

- Username root
- Password mysql
- Host localhost

Now Shravan wants to display the records of those medicines whose M_D is after 12th August 2002. Help Sartaj to write the program in Python.

All the Best