COMMON PRE-BOARD EXAMINATION 2023-24

COMPUTER SCIENCE (083)

Date:14/03/2024

Class: XII

Time Allowed:3 hours Maximum Marks: 70

General Instructions:

- 1. Please check this question paper contains 35 questions.
- 2. The paper is divided into 4 Sections- A, B, C, D and E.
- 3. Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.
- 4. Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
- 5. Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.
- 6. Section D, consists of 2 questions (31 to 32). Each question carries 4 Marks.
- 7. Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.
- 8. All programming questions are to be answered using Python Language only.

Q.	SECTION A	Marks
1.	State True or False "Python language is a Cross platform language."	1
2.	Which of the following is an identity operator in Python? a. is b. on c. in d. of	1
3.	What will be the output of the following statement? print(2**3 + (5 + 6)**(1 + 1)) a. 129 b. 8 c. 121 d. None	1
4.	For a function header as follows, def Calc (X, Y=20) : Which of the following function calls will give an error? a. Calc(15, 25) b. Calc(x=15, y=25) c. Calc(y=25) d. Calc(x=25)	1
5	Which type of join is the following SQL statement ? SELECT customer.cust_id, order.cust_id, name, order_id FROM	1

	customer, order;	
	a Equi-ioin	
	b Natural ioin	
	c. Outer join	
	d. Cartesian product	
6	Which of the following statements is True about joins in SQL?	1
	a. In natural join query the join condition has to be mention.	
	b. In cartesian product, the degree of the resultant table is equal to the sum of	
	the degree of table1 and the degree of table2.	
	c. In equi-join, the resultant table will not have duplicate columns.	
	d. In cartesian product, the cardinality of the resultant table is equal to the sum of	
	the cardinality of table1 and the cardinality of table2.	
7.	Consider the statements given below and then choose the correct output from	1
	the given options:	
	L - ["Even", "dev", "et, "et, "eeeend", "ebenee"]	
	L=[Every, day, is, a , second , chance]	
	a ['a' 'second' 'chance']	
	b ['chance' 'second' 'a']	
	c. ['Everv'. 'dav'. 'is']	
	d. ['is'. 'day'. 'Every']	
8.	Consider the statements given below and then choose the correct output from	1
	the given options:	
	S="Technology Fest@2023"	
	print(S[3:-3:3])	
	a. cogFt	
	b. 0tFgo	
	c. hlye@	
	d. hlye@0	4
9.	Which of the following statement(s) would give an error after executing the	1
	following code?	
	S-'Happy' # Statement 1	
	orint(S*3) # Statement 2	
	S+="Republic" # Statement 3	
	S append(" Day") # Statement 4	
	print(S) # Statement 5	
	a. Statement 2 b. Statement 3	
	c. Statement 4 d. Statement 3 and 4	
10.	seek() is a method of	1

		1
	a. File object	
	b. csv module	
	c. pickle module	
	d. math module	
11.	The modem at the receiver's computer end acts as a	1
	a Translator	
	h Modulator	
	c. Demodulator	
	d Converter	
12	Which of the following file mode will make the file zero length while opening?	1
12.		
	d. None of these	
13.	What possible outputs(s) are expected to be displayed on screen at the time of	1
	execution of the following code?	
	Import random	
	AR = [20,30,40,50,60,70]	
	Lower =random.randint(1,3)	
	Upper =random.randint(2,4)	
	for K in range(Lower, Upper +1):	
	print (AR[K], end="#")	
	a. 20#40#70#	
	b. 30#40#50#	
	C. 50#60#70#	
	d. 40#50#60#	
14.	Which of the following commands will change row(s) of the table from MySQL	1
	d. ALTER TABLE	
15	A is a networking device that connects computers in a network	1
	by using packet switching to receive, and forward data to the destination.	
	c. Router	
	d. Repeater	
16	Ms. Suman is working on a binary file and wants to write data from a list to a	1
	binary file. Consider list object as L, binary file sum_list.dat, and file object as f.	
	Which of the following can be the correct statement for her?	
	a. t = open('sum_list.dat','wb'); pickle.dump(L,f)	
	b. f = open('sum_list.dat','rb'); L=pickle.dump(f)	
	c. t = open('sum_list.dat','wb'); pickle.load(L,f)	
	d. t = open('sum_list.dat','rb'); L=pickle.load(f)	

Q17 and 18 are ASSERTION AND REASONING 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 False. d) A is False but R is False. d) A is False but R is True. 17 Assertion (A):- print(f1()) is a valid statement even if the function f1() 1 Assertion (A):- print(f1()) is a valid statement even if the function f1() 1 Assertion (A):- print(f1()) is a valid statement even if the function f1() 1 Reasoning (R):- A function always returns a value even if it has no return statement. Reason (R): Only a list can be concatenated to a list. 18 Assertion (A): If L is a list, then L+=range(5) is an invalid statement. 18 Assertion (A): Only a list can be concatenated to a list. 19 Expand HTML and XML. Write differences between HTML and XML. 20 Mohit has written a code to input a positive integer and display its factorial. His code is having syntax and logical errors. Rewrite the correct code and underline the corrections made. (factorial of a number n is the product 1x2x3n) n= (input(Finter a positive integer: ") f=0 for i in range(n) f*=i print(f)	Q17 a		
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The SList will have - [81,16,121,36]	21	print(f) Write a function, Words(S), that takes a string as an argument and returns a list containing words of the string that has vowels. OR Write a function SQUARE_LIST(L), where L is the list of elements passed as argument to the function. The function returns another list named 'SList' that stores the Squares of all Non-Zero Elements of L. For example: If L contains [9,4,0,11,0,6,0]	2

22	What will be the output of the following code ?	2
	t1= ['CS','IP','IT']	
	list1=t1	
	for i in list1:	
	if t1.index(i) %2 !=0:	
	new_list.append(t1.pop()) elif t1 index(i) //2 ==0:	
	new_list.append(t1.insert(len(t1)-1,t1.pop()))	
	print(new_list,list1,t1,sep='#')	
23	 (a) Write a Python statement to display alternate characters of a string, named my_exam. For example, 	2
	if my_exam="Russia Ukraine"	
	The statement should display "Rsi kan"	
	(b) Write the output of the code given below:	
	d1 = {"name": "Aman", "age": 26}	
	d2 = d1.pop('name')	
24	Write the SQL statement to add a field Country_Code (of type Integer) to the table Countries with the following fields. Country_id, Country_name, Continent, Region_id. Thereafter write a command to insert the following record to the	2
	C001, China , Asia, R123, 423	
	OR	
	A table, SPORTSTARS has been created in a database with the following fields: Admn_No, Name, DOB, Sport, Medals, Class. Give the SQL command to delete the column Class from this table. Also write a command to make the Admn_No the Primary key.	
25	Find the output of the following Python code:	2
	a=5	
	def update(x):	
	a+=5	
	if x%2 != 0:	
	a^=x^2 else:	
	a//=x	

26			'				
26 T							
fi d p fi d p fi 27 E	The conte All the king annot fix What will I in = open lata = fin. print(data] lata = fin. print(data] in.seek(0 lata = fin. print(data] Based on	ents of a text fi gs horses and what isn't bro be the output ('quote.txt') read(10) [0:3], end= '') readline() [0:3], end= '') read(6) [0:3], end= '') table STUDE	le named 'q I all the king ken. of the follow NT given he	uote.txt' is as is men ving code? ere, write the	s shown below	: SQL queries ⁻	that
fo	ollow: 	Name	Class	Gender	City	Mark	-
	1	Abhishek	XI	M	Agra	430	-
	2	Prateek	XII	M	Mumbai	440	-
	3	Sneha	XI	F	Agra	470	
	4	Nancy	XII	F	Mumbai	492	
	5	Hema	XII	F	Delhi	360	
	6	Anchal	NULL	F	Dubai	256	
	7	Mehar	X	F	Moscow	324	

	3 5		CT CLASS FROM						
	5. 5		CT CLASS TROM	STUDENT,					
28	 Write a method count_words_e() in Python to read the content of a text file and count the number of words ending with 'e' in the file. 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 count_words_e() function should display the output as: No. of such words: 4 								
			OR						
	Assume into it, wi TEXT1.T those wo vowel(i.e for exam if the file Carry Un then the Carry an	that a text file n rite a user define XT and create ords from the file with 'A','E','I',' ple TEXT1.TXT co nbrella and Ove file TEXT2.TXT d when it Rains	amed TEXT1.TXT ed function named a new file named e TEXT1.TXT whic O','U') ntains ercoat When it Rai	「already conta d vowelwords() TEXT2.TXT ,w ch does not sta	ins some text writh ,that reads the file /hich shall contain art with an upperca	en only se			
29	Consider Table : F	r the table Purcl PURCHASE	hase given below:				3		
	CNO	CNAME	CITY	QUANTITY	DOP				
	C01	GURPREET	NEW DELHI	150	2023-06-11				
	C02	MALIKA	HYDERABAD	10	2023-02-19				
	C03	NADAR	DALHOUSIE	100	2022-12-04				
	C04	SAHIB	CHANDIGARH	50	2022-10-10				
	C05	MEHAK	CHANDIGARH	15	2022-10-20				
 Based on the given table, write SQL queries for the following: 1. Increase the quantity by 3 % for all purchase in CHANDIGARH. 2. Display name, city and date of purchase of all purchases of names that contain the letter 'H'. 									
30	A nested contains [V_no (ir	l list contains the the following da it), Date (string)	e data of visitors in ata of a visitor: , Name (string), G	ender (String l	Each of the inner lis M/F), Age (int)]	sts	3		

TAXITY	TAXITYPE TCODE T01 T02 T03 T04 T05	TTYPETEMPO TRAVELLERAC INNOVAAC ERTIGAAC HATCHBACKAC SEDAN	PER KM 40 20 15 10 10				
TAXITY	TAXITYPE TCODE T01 T02 T03 T04	TTYPETEMPO TRAVELLERAC INNOVAAC ERTIGAAC HATCHBACK	PER KM 40 20 15 10				
TAXITY	TAXITYPE TCODE T01 T02 T03	TTYPE TEMPO TRAVELLER AC INNOVA AC ERTIGA	PER KM 40 20 15				
TAXITY	TAXITYPE TCODE T01 T02	TTYPE TEMPO TRAVELLER AC INNOVA	PER KM 40				
TAXITY	TAXITYPE TCODE		PER KM 40				
TAXITY		TTYPE	DED				
TAXITY							
Write So	QL commands PE and TRAV	for the queries (i) - (iv) based EL	d on the two tab	les			
		SECTION D					
Done Female: Male: 2	1						
⊢ The out	out should be:						
M							
The stat	ck should cont	ain					
['307', "⁄ ['308', "⁄	1/11/2022", "[1/11/2022", "N	David", "M", 18], Madhuri", "F", 17]]					
For example: If the list Visitors contains: [['305', "10/11/2022", "Geeta", "F", 35], ['306', "10/11/2022", "Arham". "M". 15].							
(ii) Poj the whe	o_element() - number of Mal n there are no	To Pop the objects from the s le and Female entries in the s elements in the stack.	stack and count stack. Also, disp	the display lay "Done"			
	 (i) Push_element(Visitors) - To Push Gender of visitors who are in the age range of 15 to 20. 						
(i) Pus age	h_element(Vis	vitors) To Push Conder of vi					

	CNO	CNAME	TRAVELDATE	KM	TCODE	NOP	
	101	Randeep	2018-11-07	200	T01	12	
	102	Sharad Bali	2018-12-21	120	T04	4	
	105	Sangeeta M	2019-04-25	450	T01	15	
	103	Manish Nagpal	2019-01-29	280	T02	5	
	107	Veronica	2019-03-12	365	T04	2	
	104	Dinesh Hoon	2019-10-28	290	T05	4	
	i. ii. iii. iv.	Display channels Display the aver ERTIGA types. Display the cnar of KM. Display the deta	rage Km and great me, KM and NOP ails of all travels wit	of all trav	vel in the des ate after 201	DAN and AC cending order 9-05-10	
	of the province of the provinc	oduct Program in Pythor S: ADD_PROD() – csv file named ' DISPLAY_PRO more than 100 a	n that defines and o To accept and ad product.csv'. D() – To display de and productname s	calls the f d informa etails of p starting w	ollowing use ation about a roducts havi ith 'P', prese	r defined product into a ng price nt in the CSV	
		file named prod	SECTION	IE			
33	"Knowled its web-t	dge Share" an NG based activities. T	O is planning to se The campus has fo	etup its n ur (04) U TRAINING UNIT	ew campus a NITS as sho	at Nagpur for wn below:	1*5

	Γ	UNIT - 1	UNIT – 2	DISTA	NCE (In meters)		
		ADMIN	TRAINING	60			
	-	ADMIN	RESOURCE	120			
		ADMIN	FINANCE	100			
		FINANCE	TRAINING	65			
		FINANCE	RESOURCE	40			
		TRAINING	RESOURCE	50			
	Number of	Computers in	various units a	re:			
		UNIT		NO. OF CO	OMPUTERS		
		ADMIN		150			
		FINANCE		25			
			j OF	90			
		RESOUR	<u>UE</u>	50	a baya UNITa and which		
	a) Suggest an ideal cable layout for connecting the above UNITs and which						
	b) Suggest the most suitable place (i.e. UNIT) to install the server for the						
	above NGO. Also, provide a suitable reason.						
	 c) Is there a requirement of a repeater in the given cable layout? Why/ Why not? 						
	d) NGO is	s planning to c	onnect its Reai	onal Office a	at Kota. Raiasthan. Which		
	out of t	the following w	vireless commu	nication, will	l you suggest for a high-		
	speed	connectivity?					
	(a) rac	diowave (b) ir	nfrared wave (c) Satellite			
0.4	e) Which	network devic	e is used to cor	nect the co	mputers in all UNITs?	-	
34	I. Write the	e difference be	tween append	(a) and write	e (w) mode in a text file.	2+	
	ii Δ hinarv	file named "F	MP DAT" has s	ome records	s of the structure [EmpNo		
	EmpNar	ne Post Sala	rv]				
	Write a u	user-defined fu	unction named \$	SumSalarv(I	Post) that will accept the		
	post of e	employee an a	rgument & read	the content	ts of EMP.DAT and		
	calculate	e the total sala	ry of all employ	ees of that F	Post.		
			0	R			
	i. Give one	e difference be	etween seek() a	nd tell() fund	ctions in file handling.		
	II. A binary	y file "IEST.D/	AI " has some r	ecords of the	e [lestId, Subject,		
		ks, Scoredivia	rksj. write a fui	nction in pyt	non named		
	DisplayP	ານບ້ານເອເຊີ່ອດການ) mai wii accep	n a subject a	as an argument and read the	5	
	contente	OF TEST DAT	The function	will calculate	A display the Δyerage of		

	-	
35		1+4=
	 i. Define primary key and alternate key with examples. ii. Reena wants to write a program in Python that reads and fetches all the records from Mysql table EMP having salary more than 25000. empno - integer, ename- string and salary- integer. Note the following to establish connectivity between Python and MYSQL: Username is root Password is tiger The table exists in a MYSQL database named company. 	5
	OR	
	 i. Differentiate between DDL and DML commands in SQL ii. Write a Python code that inserts the following record in the MySQL table Emp: EmpNo – integer EName – string Desig – string Salary – integer Note the following to establish connectivity between Python and MySQL: Username is admin Password is 22admin66 The table exists in a MySQL database named company. The details (EmpNo, EName, Desig and Salary) are to be accepted from the user. 	