INFORMATICS PRACTICES (065) ANNUAL EXAMINATION Session: 2023-24

Class: XI

Time: 3 HOURS M.M.: 70

General Instructions:

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

	SECTION A	
1	is the process of retrieving deleted, corrupted and lost data from the	1
	secondary storage devices.	
2	Arrange TB, KB, GB, MB in descending order of the memory units.	1
	(i) TB>MB>GB>KB	
	(ii) MB>GB>TB>KB	
	(iii) TB>GB>MB>KB	
	(iv) GB>MB>KB>TB	
3	Which smaller unit of the CPU directs and coordinates all activities within it and	1
	determines the sequence in which instructions are executed. Also, sends instruction	
	sequence to other smaller units.	
	(i) CU	
	(ii) ALU	
	(iii) Processor	
	(iv) Input Unit	
4	Identify the type of software in the situation given below:	1
	"Ms. Reeta wants to computerize or automate the library, she requires a set of programs	
	on a computer to handle the system of the library and serve the purpose of issuing book,	
	returning a book, adding a new book, etc. "	
	(i) Application Software	
	(ii) System Software	
	(iii) Generic Software	
	(iv) Specific Purpose Software	
5	Identify the correct data type of x, if x= False:	1
	(i) Dictionary	
	(ii) String	
	(iii) Boolean	
	(iv) List	
6	Choose the correct option:	1
	2nd_digit = 14	
	Statement 1: Above statement is correct	
	Statement 2: An identifier cannot have any special characters other than the underscore	
	(_), digits, uppercase, or lowercase characters. And, it should start with an alphabet or an	
	underscore.	

Youtube: SuperNova-Learnpython

		l
	(i) Only statement 1 is true	
	(ii) Only statement 2 is true	
	(iii) Both statement 1 and 2 are true, but statement 2 is not the correct explanation of	
	statement 1.	
	(iv) Both statement 1 and 2 are true, but statement 2 is the correct explanation of	
<u> </u>	statement 1.	4
7	Which of the following statement will create the list:	
	(i) list1 = list()	
	(ii) list1=[]	
	(iii) list1=list([1,2,3])	
	(iv) All of the mentioned	
8	Which of the following is a correct SQL query syntax to delete all rows in a table along	1
	with the table structure?	
	(i) Delete from table_name;	
	(ii) Delete table table_name;	
	(iii) Drop table table_name;	
	(iv) Delete * from table_name;	
9	The value 'DAV' is assigned to an attribute A of type varchar(20). The value 'School' is	1
	assigned to the attribute B of datatypechar(20). So, the attribute A has spaces	
	and attribute B has spaces reserved in the memory.	
	(i) 3,20	
	(ii) 20,3	
	(iii) 3, 6	
	(iv) 20,6	
10	State True or False:	1
	The IS NULL operator returns true if a NOT NULL value is found, otherwise, it returns	
	false.	
11	Identify the category of MySql for the following commands:	1
	Insert, Update, Delete	
	(1) 2.21	
	(i) DDL (ii) DML (iii) DQL (iv) TCL	
12	In a table Student, following are the attributes of the table:	1
	(Stu_Id, Stu_Name, Stu_Marks)	
	Where, Stu_ld is the primary key of the table.	
	How many rows will be deleted from the table Student, when the following command is	
	executed?	
	Delete from Student where Stu_id=108;	
	(i) 1 row	
	(ii) All the rows where Stu_Id is equal to 109	
	(iii) No rows	
	(iv) 2 rows	
42	Which of the fellowing are the process of Golden and Donald Co. 11.2	4
13	Which of the following are the synonyms for Column and Row of a table?	1
	1.Row = [Tuple, Record]	
	2.Column = [Field, Attribute]	
	3. Row = [Tuple, Attribute]	
	4. Column = [Field, Record]	
	(i) 1 and 2 (ii) 2 and 4 (iii) Only 1 (iv) Only 2	
	(i) 1 and 2 (ii) 3 and 4 (iii) Only 1 (iv) Only 2	

14	Observe the following				1				
14	Observe the following Table: Product	ng table:			1				
	Pno	Name	Qty	PurchaseDate					
	101	Pen	102	12-12-2011					
	102	Pencil	201	21-02-2013					
	103	Eraser	90	09-08-2010					
	109	Sharpener	90	31-08-2012					
	113	Clips	900	12-12-2011					
	What is the degree a	and cardinality	of the above table?						
15	_			thing for a provider who provides a	1				
			_	ervers and on-demand storage, that					
				ning customized applications.					
	Which cloud compu (i) Platform as a s	_	t meets these requi	rements:					
	(ii) Software as a s								
	(iii) Infrastructure								
	(iv) Cloud as a serv			**					
16				ne computers to self-learn from the	1				
			ered from their en	vironment and apply that learning					
	without human inte								
	(i) Augmented Re	ality							
	(ii) NLP (iii) Machine Learn	ing							
		-							
	(iv) Cloud Computing Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as:								
			e correct explanation	-					
	ii) Both A and R are t	true and R is no	t the correct explar	nation for A					
	iii) A is true but R is F								
	iv) A is false but R is t								
17	Assertion: Keys are u		•	adde the state of Verminant has a	1				
	two entries with the	•	llues can be accesse	ed by their keys. You cannot have					
18	Assertion: Candidat	_	not primary key are	e alternate keys.	1				
		•		ou can only use one of them as the					
	candidate key. As a	result, all the o	ther keys that not b	pecome the primary key are					
	referred to as the al	ternate keys.							
10			SECTION B						
19	a) Name one extern	•		actioning storage devices without	2				
	taking care to de		u, broken or manur	nctioning storage devices without					
	_		e the data so that it	cannot be recovered from the					
	storage device.		e the data so that it	carriot be recovered from the					
	J		OR						
	Identify the odd one out:								
	a) Vacuum tubes, Transistor, Capacitors, Integrated Circuits								
	b) Nibble, KB, HB, M	IB, GB							

x=99 y=88 z=90 print(x>y, y!=z) x=z%y z=x***2 print(x,z)	20	Predict the output of the following code:						
z=90 print(x>y, y =z) x=z**y z=x***2 print(x,z) 21 Find errors in the following code fragment.(Rewrite the program underlining the corrections) m,n=85;range(100) if m in n: print("Equal) print("May be") else: print("Not Equal"): 22 Consider a list: = [10, 5, 5, 10] Write the command which will produce the following output: a) [5,5] b) 30 OR Consider the following code fragment and answer the following: if x<5: y=1 ellf x==5: y=2 else: y=3 a) For what value of the variable x should the variable y comes out to be 2? b) Consider the initial value of the variable x as6, than what should be the value of the variable y? Rewrite the following queries underlining the corrections made: a) Alter table empdelete column gender; b) Select name from table student where name="%an%"; OR a) Arrange the following terms in the order of their creation at the time of storing data in RDBMS: Data, Database, RDBMS, Table b) Give one example of open source RDBMS. 24 Ms. Riya has created the following table Employee In MySql: 2 Table: Employee Emp_Id Emp_Name Emp_Dept Emp_Salary 101 Harish Sales 50000 102 Sarita Manager 80000 102 Sarita Manager 80000 102 102 102 102 103		· · · · · · · · · · · · · · · · · · ·						
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101 Harish Sales 50000 102 Sarita Manager 80000			_Name	Emp_Dept	Emp_Salary			
102 Sarita Manager 80000								
103 Pushpa Sales 60000								
104 Anuj Engineer 70000								

By: Amjad Khan

	a)	Help Riya to wi	ite the query that v	would produ	ce the followir	ng output in MySo	al:
	b)	+	reated the table Em	+	+	++	al:
		•	lay when she saw t	NO PR YES YES YES	NULL NULL NULL sagain, it was li		
			understand the rea nade the following			I command did si	ne
		Field	Type	Null Ke	+	++ Extra +	
		Emp_Id Emp_Name Emp_Dept Emp_Salary	int(11) varchar(50) varchar(80) decimal(12,2)	NO	I NULL NULL NULL NULL		
			e eligible to become ment with the help				
25	named comma a) crea		an ABC Organization re the data of the data for				2
				SECTION C			J
26			·	o while loop	:		2
			es will the above lo	op execute?			1
27	L1=[0,1 L1[2]=3 print(L L1.app print(L L1[2]=2	1,2,3,4,5] 3 1) end(4) 1)	t produced by the f	following coo	de:		3

28	Consider the following table Trees:						3		
				State_Id	No	Of Trees			
				101	200				
				102	400				
				103	300				
				104	100				
				105	500				
					•				
	Se	lect No_	_Of_Trees*5 f	rom Trees v	where	e No_Of_Tree	s between 3000	and 5000;	
	_								
	a)		e output of the						
						give the same			
	c)	-			it tha	t will actually	change the value	es in the	
		attribu	te No_Of_Tre	es.	0	R			
	a) Cons	ider the	attributes (A	adhar No I	_		ne following data		
	u, cons	ider tire	Aadhar No		11001	Mobile No	ie ioliowing date		
			708056544			9891234567			
			656344495			NULL			
			476998816			9911123400			
	Suggest	t an attr	L		s the	primary key a	as per the data g	iven above in	
			utes. Justify y						
	b)Wher	n a colur	mn's value is	skipped in a	n Ins	ert command	, which value is i	nserted in that	
		of theta							
29						7-	in MySQL. He ha		3
			-				the following qu	estions:	
	-					s present in th		,,	
	b)						Green_Society		
							ceCharges, Date(ofPurchase.	
30	Identify		appropriate			the table give	n helow:		3
30	•					ting,Blockcha			3
	CHOOSE		(I, IVIL) IVLI , IC	or, croda co	тра	emg, brockeria			
			Term/Applic	ation			Field]	
			Chatbot				a)		
		()	Refrigerator	automatica	lly co	nnected to	b)		
	0		Internet						
			Paying throu	gh crypto c	urren	ісу	c)		
31	a) Match the following:							2	
31	a) Matc	in the ro	ollowing:						2
	a) Con	npiler			i) O	utput Device			
	b) MS	Office			ii) Ir	nput Device			
	c) Mic	rophone	e		iii) A	Application So	ftware		
	d) Plotter iv) System Software								
								2	

	b) Give any two differe	nces between Prin	nary and Second	ary memory.				
32	a) What would be the	output of the follow	wing code:			2		
	days={1:'Mon', 2:'Tue', 3:'Wed',4:'Thurs', 5:'Fri'} print('Tue' in days) print(10+ len(days))							
	b) Ms. Anaya has been given a task to analyze the class result. She has given data in the form of dictionary where keys are roll numbers and values are its corresponding grades. Consider the items of dictionary Grade as given below: Grade={1: 'A', 2: 'B', 3: 'A', 4: 'A', 5: 'C', 6:'D'} Help her to count the number of students who have scored 'A' grade.							
	<u>'</u>		SECTION E		N.			
33	Consider the table 'Vot	ter' given below an	d write suitable	SQL queries for	the followin	g: 5		
			ble: Voter					
	Voter_Id	Name_Of_Voter	DOB		ncome			
	V2383	Amit Trehan	1975-15-03		0000			
	V1527	Gurbani Sharma	2003-08-07		0000			
	V3780	Aman	1976-01-19	9	0000			
	V4447	Karan Yadav	1975-02-22		0000			
	a) Display the Voter_Id			le Voter.				
	b) Add a column Aadha							
	c) Display the details of			to Amon Cunto				
	d) Change the name of e) Display DOB of all th			-	i.			
34	Consider a table 'G20_			130000,		5		
34	Start_Date	End_Date	Meeting_On	Venue	Days			
	2023-08-09	2023-08-12	Environment &		4			
	2020 00 00	2020 00 22	Climate	G GG.				
			Sustainability					
	2023-08-09	2023-08-11	Anti	Kolkata	3			
		10	Corruption					
	2023-08-10	NULL	Women	Gandhinagar	1			
			Empowerment					
	2023-08-16	2023-08-17	Joint Health	Gandhinagar	2			
			Finance					
	2023-08-17	NULL	Fourth Digital	Bengaluru	1			
			Economy					
		6.11						
	Write the output of the	•		Data t At II				
	_	ate from G20_Sche			202251/A			
	b) Select Days fro	-			• • •			
	 c) Select Meeting_On from G20_Schedule where Days between 2 and 3; d) Select distinct Venue from G20_Schedule; e) Select End_Date from G20_Schedule where Start_Date> '2023-08-10'; 							
	c, Scient Liiu_Dai	.c .ro	OR	_50107 2025-0	o 10,			
	a) Consider the ta	able Marks contain		udents and ans	wer the			
	following question:							
	Table: Marks							
	Fields: (Roll_No, Name, Class, Percentage)							

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	i) Identify the data type of the attribute Percentage.	
	ii) Write SQL command to insert a row in a table with suitable data.	
	iii) Remove the column Percentage from the above table.	
	iv) Identify the suitable domain of the attribute Roll_No.	
	b) Find and correct the error(s) in the following query:	
	Delete * from Table Marks;	
35	Consider the following dictionary:	5
	d={"lion": "wild", "tiger": "wild", "cat": "domestic", "dog": "domestic"}	0
	Write the python statements to perform the following operations:	
	a) Delete key_value pair for the key "tiger" in the dictionary	
	b) Display the length of the dictionary	
	c) Change the value of the key'cat' to 'Pet animal'	
	d) Display all thekeys present in the dictionary	
	e) Add a new item 'Goat': 'Farm Animal'	
	OR	
	Consider the following list:	
	Satellites=['Aryabhatta', 'Apple', 'Bhaskar-II', 'INSAT','GSAT']	
	(, ,	
	Write python statements to perform the following operations:	
	a) Add a new satellite – "Chandrayaan" in the beginning of the list.	
	b) Find the index of the element – "Apple"	
	c) Reversethe list.	
	d) Delete the last element of the list	
	e) Display elements of the list present at the index numbers from 3 to 5.	
	-1 -1 -1 - 1	1