## 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.	

	(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	
	statement 1.	
7	Which of the following statement will create the list:	1
	(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	
	(;) DDI (;;) DMI (;;;) DOI (;;;) TCI	
12	(i) DDL (ii) DML (iii) DQL (iv) TCL	1
12	In a table Student, following are the attributes of the table:	1
	(Stu_Id, Stu_Name, Stu_Marks)	
	Where, Stu_Id 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;	
	Delete Hom Stadent where Sta_ta=100,	
	(i) 1 row	
	(ii) All the rows where Stu_Id is equal to 109	
	(iii) No rows	
	(iv) 2 rows	
	(1.7) = 1.0113	
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) 3 and 4 (iii) Only 1 (iv) Only 2	

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		
15	What is the degree a  An organization inte	•		ing for a provider who pro	ovides a	1
	can be bundled into	a platform for ing model bes ervice ervice is a service	-	vers and on-demand storang customized application ements?	_	
16	information and exp without human inter (i) Augmented Rea (ii) NLP (iii) Machine Learni (iv) Cloud Computi	is a subset of the control of the	ered from their env	e computers to self-learn fironment and apply that	learning	1
i i i	) Both A and R are t i) Both A and R are t ii) A is true but R is F v) A is false but R is t	rue and R is th rue and R is no alse rue	e correct explanation of the correct explana	for A		
17	Assertion: Keys are u Reasoning: Dictiona two entries with the	ry entries or va		l by their keys. You cannot	t have	1
18	Assertion: Candidate Reasoning: A table of	e keys that are an have many esult, all the o		alternate keys. u can only use one of ther come the primary key are		1
	<u> </u>		SECTION B			
19	taking care to de	e discard our ol elete data."	d, broken or malfund	ctioning storage devices w		2
	Identify the odd one a) Vacuum tubes, Tr b) Nibble, KB, HB, M	ansistor, Capa	citors, Integrated Circ	cuits		

20	Dradict the autout	of the fell	owing code.				2
20	Predict the output of the following code: x=99						2
	y=88 z=90						
	print( x>y, y!=z) x=z%y						
	z=x**2						
24	print(x,z)		1.6.	/D :: .!		1	2
21	Find errors in the f	following c	ode fragment	.(Rewrite the	program under	lining the	2
	corrections)						
	m,n=85;range(100	))					
	if minn:						
	print("Equal)						
	print("May be")						
	else:						
	print("Not Equa	l"):					
22	Compident						
22	Consider a list:						2
	l=[10, 5, 5, 10]	nd which	ill produce th	o following o	utout		
	Write the commar a) [5,5]	iu WillCii W	m produce the	e ronowing of	սւրսւ.		
	a) [5,5] b) 30						
	0) 30			OR			
	Consider the follow	ving code	fragment and		ollowing:		
	if x<5:	wing code	magment and	answer the it	onowing.		
	y=1						
	elif x==5:						
	y=2						
	else:						
	y=3						
	· ·	value of the	e variahle <b>x</b> sh	ould the varia	able <b>y</b> comes ou	it to he 2?	
	-				-	d be the value of	
	the variab		arac or the var	10010 X 03 <b>0</b> , t	man what shoul	a be the value of	
23	Rewrite the follow		s underlining t	he correction	ns made:		2
	a) Alter table emp		_				_
	b) Select name fro		_	name="%an%	<b>"</b> :		
	2, 20.000 1101110 110			OR	,		
	a) Arrange the follo	owing terr	ns in the orde	•	ntion at the time	e of storing data in	
	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.						
	,	1					
24	Ms. Riya has creat	ed the foll	owing table Er	nployee in M	ySql:		2
			-	•	•		
	Table: Employee					_	
		Emp_ld	Emp_Name	Emp_Dept	Emp_Salary		
		101	Harish	Sales	50000		
		102	Sarita	Manager	80000		
		103	Pushpa	Sales	60000		
		104	Anuj	Engineer	70000	]	
L	i.			•	•	4	

	a) Help Riya to write  Emp_Salary 51000 81000 61000 71000 b) Ms. Riya had crea	y+1000					
	+		+	+	+	<del>+</del>	
	Field	Type	Null	Key	Default +	Extra	
	Emp_Id	int(11)	NO	PRI	NULL	i i	
	Emp_Name	varchar(30)	YES		NULL		
	Emp_Dept     Emp_Salary	<pre>varchar(80) decimal(12,2)</pre>	YES YES		NULL   NULL		
	++		+	+	+	++	
	The very next day was unable to un execute, that ma	derstand the rea	son behi change i	ind it. V n the s	Vhich MySo tructure?	ql command did s	
	Field	Туре	Null	Key	Default	Extra	
	Emp_Id	int(11)	NO NO	PRI	NULL		
	Emp_Name	varchar(50)	YES	į	NULL		
		varchar(80)	YES		NULL		
	Emp_Salary	decimal(12,2)	YES		NULL	1	
	+		+	+	+	++	
	"All candidate keys are e Justify the above stateme	-	-			++	
25	•	ent with the help	of an ex	ample.	n told to cre		2
25	Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database	ent with the help ABC Organization the data of the o	e a prima of an ex on. She h organizat	ample. as beer tion. He	n told to cre		2
	Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database	ent with the help ABC Organization the data of the o	e a prima of an ex on. She h organizat	ample. as beer tion. He	n told to cre		
25	Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database	ent with the help ABC Organization the data of the o	e a prima of an ex on. She h organizat	ample. as beer tion. He	n told to cre		2
	Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database	ABC Organization the data of t	e a prima of an ex on. She h organizat	ample. as beer tion. He	n told to cre		
	Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database a) Convert the followinum=30	ABC Organization the data of t	e a prima of an ex on. She h organizat	ample. as beer tion. He	n told to cre		
	Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database a) Convert the followinum=30 for n in range(10,num,3):	ABC Organization the data of t	e a prima of an ex on. She h organizat	as beer tion. He	n told to cre		
26	Justify the above statemed  Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database  a) Convert the followinum=30 for n in range(10,num,3):     print("Hello Boss!") b) How many times	ABC Organization the data of t	e a prima of an ex on. She h organizat SECTION o while I	as beer tion. He	n told to cre		2
	Justify the above statemed  Ms. Sarla is working in an named Companyto store commands to: a) create the database b) open the database  a) Convert the followinum=30 for n in range(10,num,3):     print("Hello Boss!") b) How many times  What will be the output process.	ABC Organization the data of t	e a prima of an ex on. She h organizat SECTION o while I	as beer tion. He	n told to cre		2
26	Justify the above statemed  Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database  a) Convert the followinum=30 for n in range(10,num,3):     print("Hello Boss!") b) How many times  What will be the output put [11=[0,1,2,3,4,5]]	ABC Organization the data of t	e a prima of an ex on. She h organizat SECTION o while I	as beer tion. He	n told to cre		2
26	Justify the above statemed  Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database  a) Convert the followinum=30 for n in range(10,num,3):     print("Hello Boss!") b) How many times  What will be the output pure the company that will be the output pure that the company that will be the output pure that the company that will be the output pure that the company that will be the output pure that the company that will be the output pure that the company that will be the output pure that the company that the c	ABC Organization the data of t	e a prima of an ex on. She h organizat SECTION o while I	as beer tion. He	n told to cre		2
26	Justify the above statemed  Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database  a) Convert the following for n in range (10, num, 3): print ("Hello Boss!") b) How many times  What will be the output public public print (12] = 3 print (L1)	ABC Organization the data of t	e a prima of an ex on. She h organizat SECTION o while I	as beer tion. He	n told to cre		2
26	Justify the above statemed  Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database  a) Convert the followinum=30 for n in range(10,num,3):     print("Hello Boss!") b) How many times  What will be the output pure the company that will be the output pure that the company that will be the output pure that the company that will be the output pure that the company that will be the output pure that the company that will be the output pure that the company that will be the output pure that the company that the c	ABC Organization the data of t	e a prima of an ex on. She h organizat SECTION o while I	as beer tion. He	n told to cre		2
26	Justify the above statemed  Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database  a) Convert the following for n in range(10,num,3): print("Hello Boss!") b) How many times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times of	ABC Organization the data of t	e a prima of an ex on. She h organizat SECTION o while I	as beer tion. He	n told to cre		2
26	Ms. Sarla is working in an named <b>Company</b> to store commands to: a) create the database b) open the database convert the following in an an amed <b>Company</b> to store commands to: a) create the database a) Convert the following in an an amed <b>Company</b> to store commands to: b) open the database  What will be database  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the output publication of the company times  What will be the company times the company	ABC Organization the data of t	e a prima of an ex on. She h organizat SECTION o while I	as beer tion. He	n told to cre		2

28	Consider the following table Trees:			3			
	State_Id	No_Of_Trees					
	101	2000					
	102	4000					
	103	3000					
	104	1000					
	105	5000					
	Select No_Of_Trees*5 from Trees	s where No_Of_Tree	s between 3000 and 5000;				
	<ul> <li>a) Give the output of the above of the above of the alternate query which is a stribute No_Of_Trees.</li> </ul>	ch will give the same	•				
	a) Consider the attributes (Aadhar_No		ne following data:				
	Aadhar_No	Mobile_No					
	708056544968	9891234567	,				
	656344495521	NULL					
	476998816340	9911123400	)				
	Suggest an attribute that should serve	as the primary key a	as per the data given above in				
	both the attributes. Justify your answe	er.					
		hen a column's value is skipped in an Insert command, which value is inserted in t					
29	column of thetable?  Rohan has created a database named			3			
	table for each housing society present  a) Write a command to display a b) Write SQL query to create ane fields OwnerId,OwnerName,H Choose appropriate datatypes	Il tables present in the table by the name louseNo, Maintenands for the same.	he database. e "Green_Society" containing ceCharges, DateOfPurchase.	3			
30	Identify the Field of the Term/Application in the table given below: Choose from: AI, ML, NLP, IOT, Cloud Computing, Blockchain.						
	Choose from: AI, ML, NLP, IOT, Cloud (	Computing,Blockcha	ın.				
	Torm/Application		Tiold				
	Term/Application Chatbot		Field a)				
	Refrigerator automatic	rally connected to	b)				
	Internet	carry connected to	"/				
	Paying through crypto	currency	c)				
		,					
		SECTION D					
31	a) Match the following:			2			
	a) Compiler	i) Output Device					
	b) MS Office	ii) Input Device					
	c) Microphone	iii) Application So	ftware				
	d) Plotter	iv) System Softwa	are				
				2			

	b) Give any two differ	ences 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 print('Tue' in days) print(10+ len(days))	', 3:'Wed',4:'Thurs',	5:'Fri'}				
	b) Ms. Anaya has been form of dictionary wh Consider the items of Help her to count the	ere keys are roll nu dictionary Grade as Grade={1: 'A', 2: 'B	mbers and values given below: ', 3: 'A', 4: 'A', 5:	s are its corr 'C', 6:'D'}			2
	'		SECTION E	<u> </u>			1
33	Consider the table 'Vo	-		SQL queries	for the foll	owing:	5
			ble: Voter	<b></b>			
	Voter_Id	Name_Of_Voter	DOB	City	Income		
	V2383	Amit Trehan	1975-15-03	New Delhi	20000		
	V1527 V3780	Gurbani Sharma Aman	2003-08-07 1976-01-19	Faridabad	30000		
	V4447	Karan Yadav	1975-01-19	Gurgaon Old Delhi	40000 60000		
	a) Display the Voter_I				00000		
	b) Add a column Aadh			e voter.			
	c) Display the details of d) Change the name of e) Display DOB of all t	of the Voter having N he voters whose inc	Voter ID 'V3780' come is less than		ota.		
34	Consider a table 'G20			1			5
	Start_Date	End_Date	Meeting_On	Venue		ıys	
	2023-08-09	2023-08-12	Environment & Climate Sustainability	Chennai	4		
	2023-08-09	2023-08-11	Anti Corruption	Kolkata	3		
	2023-08-10	NULL	Women Empowerment	Gandhina	gar 1		
	2023-08-16	2023-08-17	Joint Health Finance	Gandhina	gar 2		
	2023-08-17	NULL	Fourth Digital Economy	Bengaluru	1		
	b) Select Days fr c) Select Meetin d) Select distinct e) Select End_Da	Date from G20_Sche om G20_Schedule v ng_On from G20_Sc t Venue from G20_S ate from G20_Sched table Marks contain	dule where End_ where Venue in ( hedule where Da schedule; dule where Start_ <b>OR</b>	Bengaluru', ays between _Date> '2023	'Chennai') 2 and 3; 3-08-10';		

	<ul> <li>i) Identify the data type of the attribute Percentage.</li> <li>ii) Write SQL command to insert a row in a table with suitable data.</li> <li>iii) Remove the column Percentage from the above table.</li> <li>iv) Identify the suitable domain of the attribute Roll_No.</li> <li>b) Find and correct the error(s) in the following query:</li> </ul>	
35	Delete * from Table Marks;  Consider the following dictionary:	5
33	d={"lion": "wild", "tiger": "wild", "cat": "domestic", "dog": "domestic"}  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'	3
	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.	