## **INFORMATICS PRACTICES (065)**

Sample Paper Session: 2024-25 Class: XI MARKING SCHEME

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	Determine if there are any backups available to look for recovery options.	1			
	(or any other relevant answer)				
2	(i) 1024	1			
3	(ii) ALU	1			
4	(iv) Specific Purpose Software	1			
5	(i)Using reserved keywords	1			
6	(i) avg = (marksMaths + marksEnglish + marksIP) / 3	1			
7	(iv) If a > 10:	1			
	#Will executes this block if the condition is true				
8	iii) NULL represents a missing or unknown value.	1			
9	INSERT INTO Student (Marks) VALUES (80);	1			
	(½ mark to be awarded for writing Marks in its correct place)				
	(½ mark to be awarded for writing Column name in its correct place)				
10	False	1			
11	(i) DDL	1			
12	Error: A table must have at least 1 column	1			
13	(iii) Alphabets and space	1			
14	Cardinality=7, Degree=4	1			
15	(i) Platform as a service	1			
16	(ii) NLP	1			
Q17	and 18 are ASSERTION AND REASONING based questions. Mark the correct choice a	is:			
	i. Both A and R are true and R is the correct explanation for A				
	ii. Both A and R are true and R is not the correct explanation for A				
	iii.A is true but R is False				
	iv.A is false but R is true				
17	(v)Both A and R are False.	1			
18	(i) Both A and R are true and R is the correct explanation for A	1			

	SECTION B		
19	Hardware need software instructions to function and perform useful tasks. For example, a CPU needs an operating system to manage its resources and run	1	
	applications.	1	
	The performance of software is directly tied to the capabilities of the hardware.		
	For example, high-end graphics software requires powerful GPUs to render		
	images and videos effectively.		
	(or any other relevant answer)		
	Or	1	
	RAM: (c), (d), (e)	1	
	ROM: (a), (b)		
20		1/2	
	10	1/2	
	35	1/2	
24	84	1/2	
21	i = 10 difference = 0	1/2	
	for i in range(10,0,-3):	1/2	
	if i % 2 == 0:	/2	
	_difference = difference - i	1/2	
	else:	/2	
	difference = difference + i	1/2	
	print(difference)		
22	i) 28	1	
	ii)True	1	
	OR		
	a) the loop will be executed 6 times.	1	
	b) 36	1	
23	a) ALTER table Employee modify Name VARCHAR(30);	1	
	(½ mark to be awarded for writing 'table' in its correct place)		
	(½ mark to be awarded for replacing 'increase' with 'modify' keyword)		
	b) UPDATE Employee SET Dept = "Analyst" WHERE DeptID = 2 and Salary > 40000;	1	
	/ /½ mark to be awarded for replacing ' ,' with logical 'and' operator)		
	(½ mark to be awarded for replacing ' = ' with ' > ' operator)		
	OR		
	To group the tables that are related to each other, we need to identify common	1	
	fields among the tables that can establish relationships. Based on the given fields,		
	here are the potential relationships:		
	1. Table1 and Table3:	1/	
	o Common field: Field2	1/2	
	o <b>Reason</b> : Table3 has Field2, which matches with Table1.		
	2. Table2 and Table4:	1/2	
	o Common field: Field13	/2	
		1	

		o Reaso	on: Table4 has F	ield13, which matches with Table2.	
	(or any o	ther relevai	nt answer)		
24			ix where rating=8.8	3;	1
	b) Select * from Netflix where rating!=8.8;				1
	(or any o	ther releva	nt query)		
				OR	
		Key: ClothID			1/2
			nID, ItemName		1
	Alternate	e Key: ItemN	Name		1/2
	(or any o	ther releva	nt answer)		
25	a) Use En		•		1
	· -	database E	Employee;		1
			SEC	CTION C	
26	· -	m in range(	30,9,-10):		2
	print	t(num)			
27	b) 3 time				1
27	_	f my_list: 5			1
	[10, 20]	st: [10, 20, 3	20 40 501		1
28			: NoOfStudents=No	oOfStudents+5:	1
20	b)	c School sch	. Noorstaachts-N	ooistadents is,	1
	Class	Section	NoOfStudents		
	Class	Section	Nooistudents		
	IX	А	45		
	Х	В	40		
	ΧI	Α	NULL		
	XII	В	5		
	c) Null values in databases represent missing or unknown information. They are $oxed{1}$			1	
	I =	placeholders indicating that data does not exist or is not yet known. Here's why			
	nothing (	lan be adde	d to null values.		
	(or any o	ther correct	t answerl		
	(or any other correct answer)  OR				
	a) Betwe	en			1/2
	and				1/2
	b) Show				1
	c) Drop				1
29	a) <u>rating</u>	<u>&gt;8.8</u>			1
	1				
	0				
	0				

	b) (i) Data Security: ensures that data is protected from unauthorized access, breaches, and other threats.  (ii) Flexibility: makes it a popular choice for diverse applications.			
	(or any other relevant answer)			
30	a) Al		1	
30	b) IOT		1	
	c) NLP		1	
		TION D		
31	a)			
	a) Interpreter iv)	Language Processor	1/2	
		Utility Software	1/2	
	c) PowerPoint ii)	Application Software	1/2	
		System Software	1/2	
		·		
	b)			
	Input Devices: Scanner, Barcode Reader	r	1	
	Output Devices: Plotter, Speaker		1	
32	a)			
	{'Aman': 80, 'Sumit': 30, 'Dinesh': 50, 'Su	-	1	
	{'Aman': 80, 'Sumit': 30, 'Dinesh': 30, 'Su	resh': 20}	1	
	b) [10, 20,30, 40, 50, 60]		1	
	[10, 20, 40, 50, 60]		1	
		TION E	<u> </u>	
33	a) Select CarName from Carden where C		1	
	b) Alter table Carden add Charges intege		1 1	
	c) Select CarCode from Carden where CarName = "Indigo";			
	d) Update Carden set CarName ="Fortuner" where Capacity = 7; e) Select Make from Carden where Capacity>3;			
	e) Select Make from Carden where Capacity>3;			
	(or any other relevant answer)			
34	a) <u>CandidateName</u>		1	
	John Doe		-	
	Michael Johnson			
	b) PartyName		1	
	Green Party			
	Liberal Party			
	Conservative Party			
	c) <u>ElectionID</u>		1	
	(Empty Set)			
	d) <u>Constituency</u>		1	
	District B			
	District C			
	e) <u>VotesReceived+50</u>		1	
	4050			
	Or			
	a) i) CREATE TABLE Orders		2	
	( OrderID INTEGER, CustomerName VARCHAR(50),			

	OrderDate DATE,			
	TotalAmount DECIMAL(10, 2) );			
	(4 made to be a control for a constitution to the standard			
	(1 mark to be awarded for appropriate structure)			
	(1 mark to be awarded for choosing appropriate data types)			
	ii) Alter table Orders drop OrderDate;	1		
	iii) Alter table Orders modify CustomerName Varchar(80);	1		
	b) Update orders set TotalAmount=0 where TotalAmount is Null;	1		
35	a) print(indian_library_catalog ["Literary Fiction"])	1		
	b) del indian_library_catalog ["Novel"]	1		
	or			
	indian_library_catalog .pop("Novel")			
	c) print(len(indian_library_catalog ))	1		
	d) print(indian_library_catalog .values())	1		
	e) indian_library_catalog ["Thriller"]="The girl on the train"	1		
	Or			
	a) print(MYLIST[3])			
	b) MYLIST[2]="MUTABLE"	1		
	c) MYLIST.reverse()			
	or	1		
	MYLIST[::-1]			
	d) MYLIST.insert(4,"SEQUENCE")	1		
	e) MYLIST[2:5]	1		