SAMPLE QUESTION PAPER (THEORY) CLASS XII SESSION: 2024-25 INFORMATICS PRACTICES (065)

Time allowed: 3 Hours Maximum Marks:70

General Instructions:

- Please check this question paper contains 37 questions.
- All questions are compulsory. However, internal choices have been provided in some questions. Attempt only one of the choices in such questions
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- Section C consists of 4 questions (29 to 32). Each question carries 3 Marks.
- Section D consists of 2 case study type questions (33 to 34). Each question carries 4
 Marks.
- Section E consists of 3 questions (35 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In case of MCQ, text of the correct answer should also be written.

Q No.	Section-A (21 x 1 = 21 Marks)	Marks
1	State whether the following statement is True or False:	1
	Slicing can be used to extract a specific portion from a Pandas Series.	l
2	The purpose of where clause in a SQL statement is to:	
	(A) Create a table	
	(B) Filter rows based on a specific condition	1
	(C) Specify the columns to be displayed	
	(D) Sort the result based on a column	
3	Identify the networking device responsible for routing data packets based on their	
	destination addresses.	
	(A) Modem	4
	(B) Hub	ı
	(C) Repeater	
	(D) Router	



4	Identify the SQL command used to delete a relation (table) from a relational database. (A) DROP TABLE (B) REMOVE TABLE (C) DELETE TABLE (D) ERASE TABLE	1
5	e-waste refers to: (A) Software that has become obsolete (B) Data that has been deleted from a storage device (C) Viruses that infect computers (D) Electronic devices that are no longer in use	1
6	Which of the following Python statements can be used to select a column column_name from a DataFrame df? (A) df.getcolumn('column_name') (B) df['column_name'] (C) df.select('column_name') (D) df(column_name)	1
7	By default, the plot() function of Matplotlib draws a plot. (A) histogram (B) column (C) bar (D) line	1
8	State whether the following statement is True or False: In SQL, the HAVING clause is used to apply filter on groups formed by the GROUP BY clause.	1
9	Which of the following Python statements is used to import data from a CSV file into a Pandas DataFrame (Note: pd is an alias for pandas)? (A) pd.open_csv('filename.csv') (B) pd.read_csv('filename.csv') (C) pd.load_csv('filename.csv') (D) pd.import_csv('filename.csv')	1
10	What is plagiarism?	1

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	 (A) Using copyrighted material without giving proper acknowledgement to the source (B) Downloading illegal software. (C) Spreading misinformation online. (D) Hacking into computer systems. 	
11	Fill in the Blank The COUNT(*) function provides the total number of within a relation (table) in a relational database. (A) Columns (B) Unique values (C) Not-null values (D) Rows	1
12	In which of the network topologies do all devices connect to a central point, such as a switch or hub? (A) Star (B) Bus (C) Tree (D) Mesh	1
13	In a Pandas DataFrame, if the tail() function is used without specifying the optional argument indicating the number of rows to display, what is the default number of rows displayed, considering the DataFrame has 10 entries? (A) 0 (B) 1 (C) 4 (D) 5	1
14	Identify the type of cybercrime that involves sending fraudulent emails to deceive individuals into revealing sensitive information. (A) Hacking (B) Phishing (C) Cyberbullying (D) Cyberstalking	1
15	While creating a Series using a dictionary, the keys of the dictionary become: (A) Values of the Series	1



(C) Data type of the Series (D) Name of the Series (D) Name of the Series 16 Match the following SQL functions/clauses with their descriptions: SQL Function		(B) Indices of the Series							
(D) Name of the Series Match the following SQL functions/clauses with their descriptions: SQL Function Description		(C) Data type of the Series							
Match the following SQL functions/clauses with their descriptions: SQL Function Description									
SQL Function Description P. MAX () 1. Find the position of a substring in a string. Q. SUBSTRING () 2. Returns the maximum value in a column. R. INSTR () 3. Sorts the data based on a column. S. ORDER BY 4. Extracts a portion of a string. (A) P-2, Q-4, R-3, S-1 (B) P-2, Q-4, R-1, S-3 (C) P-4, Q-3, R-2, S-1 (D) P-4, Q-2, R-1, S-3 17 Fill in the Blank Boolean indexing in Pandas DataFrame can be used for (A) Creating a new DataFrame (B) Sorting data based on index labels (C) Joining data using labels (D) Filtering data based on condition 18 Which Matplotlib plot is best suited to represent changes in data over time? (A) Bar plot (B) Histogram (C) Line plot (D) Histogram & Bar plot		(2).14							
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(C) Line plot (D) Histogram & Bar plot									
(D) Histogram & Bar plot		(B) Histogram	1						
		(C) Line plot							
10 Which type of network covers a small geographical area like a single office		(D) Histogram & Bar plot							
	40	Which two of naturally cavers a small magnifical and like a single office							
	19	Which type of network covers a small geographical area like a single office,							
building, or school campus?		building, or school campus?							
(A) PAN		(A) PAN	1						
(B) MAN		(B) MAN	I						
(C)LAN		(C)LAN							
(D) WAN									
(D) WAIN									
Q-20 and Q-21 are Assertion (A) and Reason (R) Type questions. Choose		Q-20 and Q-21 are Assertion (A) and Reason (R) Type questions. Choose							
the correct option as:		the correct option as:							

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	((A) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A) (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A) (C) Assertion (A) is True, but Reason (R) is False (D) Assertion (A) is False, but Reason (R) is True	
20		sertion (A): We can add a new column in an existing DataFrame. son (R): DataFrames are size mutable.	1
21	Con Rea	certion (A): In SQL, INSERT INTO is a Data Definition Language (DDL) nmand. Ison (R): DDL commands are used to create, modify, or remove database ctures, such as tables.	1
Q No.		Section-B (7 x 2 = 14 Marks)	Marks
22	(A)	What is a Series in Python Pandas? Also, give a suitable example to support your answer. OR What does the term 'library' signify in Python? Mention one use for each of the following libraries: • Pandas • Matplotlib	2
23		at are intellectual property rights (IPR), and why are they important in the tal world?	2
24		ries for the following: I. To extract and display "Manage" from the string. II. Display the position of the first occurrence of "base" in the given string.	2
25	(A) (B)	What is Internet and how does it differ from World Wide Web (WWW)? OR Explain the concept of browser cookies and mention one advantage of using them.	2





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		2
Mer	ntion two health concerns associated with excessive use of Digital Devices.	2
dictionaries. However, her code contains some mistakes. Identification rewrite the correct code, and underline the corrections made. import Pandas as pd D1 = {'Name': 'Rakshit', 'Age': 25} D2 = {'Name': 'Paul', 'Age': 30} D3 = {'Name': 'Ayesha", 'Age': 28} data = [D1,D2,D3) df = pd.Dataframe(data) print(df) OR (B) Complete the given Python code to get the required output (ignorative) as Output: Tamil Nadu Chennai Uttar Pradesh Lucknow Manipur Imphal Code: import as pd data = ['Chennai','','Imphal']		2
Section-C (4 x 3 = 12 Marks)		Marks
Ayesha's family is replacing their old computer with a new one. They decide to throw the old computer in a nearby empty field/plot. I. Explain any one potential environmental hazard associated with improper e-waste disposal.		3
	(A) (B)	dictionaries. However, her code contains some mistakes. Identify the errors, rewrite the correct code, and underline the corrections made. import Pandas as pd D1 = {'Name': 'Rakshit', 'Age': 25} D2 = {'Name': 'Paul', 'Age': 30} D3 = {'Name': 'Ayesha", 'Age': 28} data = [D1,D2,D3) df = pd.Dataframe(data) print(df) OR (B) Complete the given Python code to get the required output (ignore the dtype attribute) as Output: Tamil Nadu Chennai Uttar Pradesh Lucknow Manipur Imphal Code: import as pd data = ['Chennai',' ','Imphal'] indx = ['Tamil Nadu','Uttar Pradesh','Manipur'] s = pd.Series(, indx) print() Section-C (4 x 3 = 12 Marks) Ayesha's family is replacing their old computer with a new one. They decide to throw the old computer in a nearby empty field/plot. I. Explain any one potential environmental hazard associated with improper e-waste disposal. II. Suggest one responsible way to Ayesha's family for proper disposal of



30	(A)	(A) Write a Python program to create the following DataFrame using a list of dictionaries.							
				Product		Price			
			0	Laptop	- 6	80000			
			1	Desktop) 4	15000			
			2	Monitor	1	5000			
			3	Tablet	3	30000			
		OR							3
	(B)	Write a Python Progran	n to cr	eate a Pa	ndas	Series	as shov	vn below using a	
		dictionary. Note that the	ne lef	t column	indic	ates th	e indice	es and the right	
		column displays the da	ta.						
			Rus	sia	Mos	cow			
				gary		apest			
			Swi	tzerland	Berr	1			
31	I. Write an SQL statement to create a table named STUDENTS , with the								
	following specifications:								
	Column Name Data Type Key								
	StudentID Numeric Primary Key								
								2+1=3	
	LastName Varchar(10)								
	DateOfBirth Date								
	Percentage Float(10,2)								
	II. Write SQL Query to insert the following data in the Students Table								
	1, Supriya, Singh, 2010-08-18, 75.5								
32	(A)	(A) Consider the following tables:							
	Table 1:								
	EMPLOYEE which stores Employee ID (EMP_ID), Employee Name								
	(EMP_NAME), Employee City (EMP_CITY)								
	Table 2:								
	PAYROLL which stores Employee ID (EMP_ID), Department						3		
	(DEPARTMENT), Designation (DESIGNATION), and Salary (SALARY) for								
	various employees.								
		Note: Attribute names a	are wri	tten withir	n bra	ckets.			
		Table: EMPLOYEE							
		EMP_ D	E	MP_NAM	E	EMP_C	ITY		
		U		Page 7 of	14			J	

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1	ABHINAV	AGRA
2	KABIR	FARIDABAD
3	ESHA	NOIDA
4	PAUL	SEOUL
5	VICTORIA	LONDON

Table: PAYROLL

EMP_ID	DEPARTMENT	DESIGNATION	SALARY
1	SALES	MANAGER	75000
2	SALES	ASSOCIATE	50000
3	ENGINEERING	MANAGER	95000
4	ENGINEERING	ENGINEER	70000
5	MARKETING	MANAGER	65000

Write appropriate SQL queries for the following:

- I. Display department-wise average Salary.
- II. List all designations in the decreasing order of Salary.
- III. Display employee name along with their corresponding departments.

OR

(B) Consider the following tables:

Table 1:

ATHLETE, which stores AthleteID, Name, Country. The table displays basic information of the athletes

Table 2:

MEDALS, which stores AthleteID, Sport, and Medals. The table displays the number of medals won by each athlete in their respective sports.

Table: ATHLETE

AthleteID	Name	COUNTRY	
101	Arjun	INDIA	
102	Priya	INDIA	
103	Asif	UAE	
104	Rozy	USA	
105	David	DENMARK	

Table: MEDALS

AthleteID	Sport	Medals
101	Swimming	8
102	Track	3
103	Gymnastics	5
104	Swimming	2
105	Track	6

Write appropriate SQL queries for the following:



bowniedddd 110m . Hoopb.,, obbopol dd 100m,						
	I. Display t	he sports-wise tot	al number of m	nedals won.		
	II. Display t	he names of all th	e Indian athlet	es in uppercase.		
	III. Display t	he athlete name a	along with their	corresponding sports		
Q No.	Section-D (2 x 4 = 8 Marks)				Marks	
33	During a practical exam, a student Ankita has to fill in the blanks in a Python					
	program that generates a bar chart. This bar chart represents the number of					
	books read by four stude					
	Soone road by roan olday		1	1		
		Student Name	Books Read			
		Karan	12			
		Lina	9			
		Raj	5			
		Simran	3			
	Help Ankita to complete					
	Number of Books Read by Students					
	12 - Books Read					
	10 -					
	8 -				4	
	s Read				-	
	Books - 9					
	4 -					
	2 -					
	Karan Lina Raj Simran Student Name					
	import as plt #Statement-1					
	students = ['Karan', 'Lina', 'Raj', 'Simran']					
	books_read = [12, 9, 5, 3]					
	plt.bar(students,, label='Books Read') #Statement-2					
	plt.xlabel('Student Name')					
	plt('Books Read') #Statement-3					
	<pre>plt.legend() plt.title(' ') #Statement-4</pre>					
	plt.show()	πο ca cemen C-4	•			



- I. Write the suitable code for the import statement in the blank space in the line marked as Statement-1.
- II. Refer to the graph shown above and fill in the blank in Statement-2 with suitable Python code.
- III. Fill in the blank in Statement-3 with the name of the function to set the label on the y-axis.
- IV. Refer the graph shown above and fill the blank in Statement-4 with suitable Chart Title.
- 34 (A) Rahul, who works as a database designer, has developed a database for a bookshop. This database includes a table *BOOK* whose column (attribute) names are mentioned below:

BCODE: Shows the unique code for each book.

TITLE: Indicates the book's title. **AUTHOR**: Specifies the author's name. PRICE: Lists the cost of the book.

Table: воок

BCODE	TITLE	AUTHOR	PRIC E
B001	MIDNIGHT'S CHILDREN	SALMAN RUSHDIE	500
	THE GOD OF SMALL		
B002	THINGS	ARUNDHATI ROY	450
B003	A SUITABLE BOY	VIKRAM SETH	600
B004	THE WHITE TIGER	ARAVIND ADIGA	399
		KHUSHWANT	
B005	TRAIN TO PAKISTAN	SINGH	350

I. Write SQL query to display book titles in lowercase.

- II. Write SQL query to display the highest price among the books.
- III. Write SQL query to display the number of characters in each book title.
- IV. Write SQL query to display the Book Code and Price sorted by Price in descending order.

Dr. Kavita has created a database for a hospital's pharmacy. The database includes a table named MEDICINE whose column (attribute) names are mentioned below:

MID: Shows the unique code for each medicine.

4





(B)



MED_NAME: Specifies the medicine name

SUPP CITY: Specifies the city where the supplier is located.

STOCK: Indicates the quantity of medicine available.

DEL DATE: Specifies the date when the medicine was delivered.

Table: MEDICINE

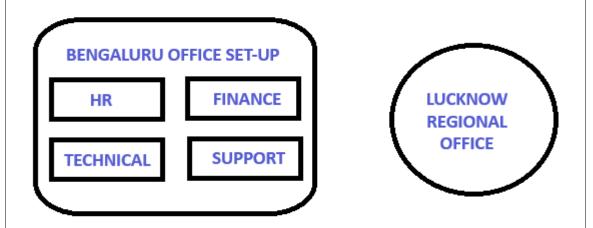
MID	MED_NAME	SUPP_CITY	STOCK	DEL_DATE
M01	PARACETAMOL	MUMBAI	200	2023-06-15
M02	AMOXICILLIN	KOLKATA	50	2023-03-21
M03	COUGH SYRUP		120	2023-02-10
		BENGALURU		
M04	INSULIN	CHENNAI	135	2023-01-25
M05	IBUPROFEN		30	2023-04-05
		AHMEDABAD		

Write the output of the following SQL Queries.

- Select LENGTH(MED_NAME) from MEDICINE where STOCK > 100;
- III. Select MED_NAME from MEDICINE where STOCK between 120 and 200;
- IV. Select max(DEL_DATE) from MEDICINE;

Q No.	Section-E (3 x 5 = 15 Marks)	Marks
I E	ABC Pvt. Ltd., a multinational technology company, is looking to establish its Indian Head Office in Bengaluru, and a regional office branch in Lucknow. The Bengaluru head office will be organized into four departments: HR, FINANCE, TECHNICAL, AND SUPPORT. As a network engineer, you have to propose solutions for various queries listed from I to V.	5





The shortest distances between the departments/offices are as follows:

HR TO FINANCE	65 M
HR TO TECHNICAL	80 M
HR TO SUPPORT	70 M
FINANCE TO TECHNICAL	60 M
FINANCE TO SUPPORT	75 M
TECHNICAL TO SUPPORT	50 M
BENGALURU OFFICE TO LUCKNOW	1900 KM

The number of computers in each department/office is as follows:

HR	175
FINANCE	35
TECHNICAL	50
SUPPORT	15
LUCKNOW OFFICE	40

- Suggest the most suitable department in the Bengaluru Office Setup, to install the server. Also, give a reason to justify your suggested location.
- II. Draw a suitable cable layout of wired network connectivity between the departments in the Bengaluru Office.
- III. Which networking device would you suggest the company to purchase to interconnect all the computers within a department in Bengaluru Office?
- IV. The company is considering establishing a network connection between its Bengaluru Head Office and Lucknow regional office. Which



	type	of networ	k—LAN, MAN, or WAN-	—will be o	created? Ju	ustify your	
	ans	wer.					
	V. The company plans to develop an interactive website that will enable					vill enable	
	its employees to monitor their performance after login. Would						
	reco	mmend a	static or dynamic website	, and why	?		
6 Cons	idor tha [DataEramo	df shown below.				
Con		T	1	Voor	Datina		
	0	MovielD	Title LAGAAN	Year 2001	Rating 8.4		
	1	2	TAARE ZAMEEN PAR	2007	8.5		
	2	3	3 IDIOTS	2009	8.4		
	3	4	DANGAL	2016	8.4		
	4	5	ANDHADHUN	2018	8.3		
VA / -: (D (1)		Coulled Data Francisco				
VVIITE	•		for the DataFrame df to				
	I. Prin	t the first to	wo rows of the DataFrame	edf.			
	II. Disp	olay titles o	f all the movies.				
	II. Ren	nove the co	olumn rating.				
I	V. Disp	play the da	ta of the 'Title' column f	rom inde	kes 2 to 4 (I	both	
	inclu	uded)					
	V. Ren	ame the co	olumn name 'Title' to	'Name'.			
7 (A)	Writes	uitable SO	L query for the following:				
(/ 1)	I.		lay the average score from	m the to	st rocult	e column	
	'	•	,	iii tiie tes	sc_resurc	.s coluiniii	
		•	e) in the Exams table				
	II.	To d	isplay the last th				
			, ,		aracters	of the	
		regist	cration_number colum				
		_	, ,	n (attribut	e) in the ${f v}$	'ehicles	
		table. (1	cration_number colum	n (attribut	e) in the ${f v}$	'ehicles	
	III.	table. (N	cration_number column Note: The registration nur	n (attribut	e) in the v estored in t	rehicles he format	
	III.	table. (NDL-01-A	cration_number column Note: The registration nur	n (attribut mbers are mn (attribu	e) in the v estored in to	rehicles the format ame in the	
	III.	table. (I DL-01-A To displ	ration_number column Note: The registration nur NV-1234) lay the data from the colur	n (attribut mbers are mn (attribu y leading	e) in the vestored in the stored in the stor	rehicles the format ame in the spaces.	
		table. (I DL-01-A To displ Users	Note: The registration nur Note: The registration nur Note: The registration nur Note: The registration nur Note: The registration nurse I ay the maximum value in	n (attribut mbers are mn (attribu y leading	e) in the vestored in the stored in the stor	rehicles the format ame in the spaces.	
	IV.	table. (I DL-01-A To displ Users to To displ	Note: The registration nure AV-1234) lay the data from the colurtable, after eliminating any lay the maximum value in mployees table.	n (attribut mbers are mn (attribut y leading the sala	te) in the version to the terms and trailing ry column	he format ame in the spaces. (attribute)	
(B)		table. (I DL-01-A To displ Users to To displ	Note: The registration nurely note: The registration is a second of rows in the count of rows in the registration.	n (attribut mbers are mn (attribut y leading the sala	te) in the version to the terms and trailing ry column	he format ame in the spaces. (attribute)	
(B)	IV. V.	table. (I DL-01-A To displ Users to To displ of the E To dete	Note: The registration nurely Note: The Registration number of the count of rows in the co	n (attribut mbers are mn (attribut y leading the sala	te) in the version to the test of the test	he format ame in the spaces. (attribute)	
(B)	IV. V. Write s	table. (I DL-01-A To displ Users to To displ of the E To dete	Note: The registration nursely violate. The registration nursely violate table, after eliminating any lay the maximum value in mployees table. rmine the count of rows in OR L query for the following:	n (attribut mbers are mn (attribut y leading the sala	te) in the verte stored in the usernate and trailing ry column	he format ame in the spaces. (attribute)	
(B)	IV. V.	table. (I DL-01-A To displ Users to To displ of the E To dete	Note: The registration nursely visited to the segmentation of the column table, after eliminating any lay the maximum value in mployees table. The count of rows in the column table, after eliminating any lay the maximum value in mployees table. The count of rows in the count of r	n (attribut mbers are mn (attribut y leading the sala	te) in the verte stored in the usernate and trailing ry column	he format ame in the spaces. (attribute)	



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	II.	Calculate the remainder when 125 is divided by 8.	
	III.	Display the number of characters in the word 'NewDelhi'.	
	IV.	Display the first 5 characters from the word 'Informatics	
		Practices'.	
	V.	Display details from 'email' column (attribute), in the	
		'Students' table, after removing any leading and trailing	
		spaces.	

