## **BUDHA DAL PUBLIC SCHOOL, PATIALA**

TERM-II EXAMINATION (SESSION 2024-25) SET:-B

CLASS: - XII, SUBJECT: - INFORMATICS PRACTICES (CODE:- 065)

Time: 3 Hours Max. Marks: 70

## **General Instructions:**

- 1. This question paper contains five sections, Section A to E.
- 2. All questions are compulsory.
- 3. Section A has 18 questions carrying 01 mark each.
- 4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
- 5. Section C has 05 Short Answer type questions carrying 03 marks each.
- 6. Section D has 02 questions carrying 04 marks each.
- 7. Section E has 03 questions carrying 05 marks each.
- 8. All programming questions are to be answered using Python Language only.

	SECTION-A	
	Fill in the Blanks:-	
1.	Theclause lets you arrange the result set in ascending or descending order	1
2.	Two types of MySQL functions are single row functions and functions.	1
3.	Software which usually limits the functionality after a trial period are known a	1
	State Whether the following statements are True or False:-	
4.	DISTINCT option causes a group function to consider only the unique values of the argument expression.	1
5.	COUNT() function ignores duplicate and null values while counting the records.	1
6.	E-document becomes legal after it is digitally signed.	1
0.	Multiple Choice Questions(MCQs):-	1
7.	(a) What will be the order of the data being sorted after the execution of given SQL query? SELECT FROM STUDENT ORDER BY ROLL_NO;	1
	(i) Custom Sort (ii) Descending (iii) Ascending (iv) None of these	
8.	Which of the following clauses is used to sort the result set?  (i) SORT BY  (ii) GROUP BY  (iii) ARRANGE BY  (iv) ORDER BY	1
9.	If column "Marks" contains the data set (25, 35, 25, 35, 38), what will be the output after the execution of the given query?  SELECT DISTINCT (MARKS) FROM STUDENTS;  (i) 25,35,25,35,38 (ii) 25,25,35,35,38 (iii) 25,35,38 (iv) 25,25,35,35	1
10.	What SQL statement do we use to find the total number of records present in the table Product?  (i) SELECT FROM PRODUCT;  (ii) SELECT COUNT(*) FROM PRODUCT;  (iii) SELECT FIND (*) FROM PRODUCT;  (iv) SELECT SUM() FROM PRODUCT;	1
11.	Which of the following functions is not an aggregate function?  (i) ROUND( ) (ii) SUM( ) (iii) COUNT() (iv) AVG( )	1
12.	Which clause in SQL is used to apply a condition on a group?  (i) Where (ii) Having (iii) As (iv) On	1
13.		1
14.		1
15.		1

	Which of the following is not covered under (i) Music (ii) Insurance	(iii) Logo o				
	Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as					
	<ul> <li>a) Both A and R are true and R is the correct explanation for A</li> <li>b) Both A and R are true and R is not the correct explanation for A</li> </ul>					
	c) A is True but R is False.	t the correct explana	HIOI IVI IX			
	d) A is False but R is True.	I il an orm ny				
17.	Assertion (A): The HAVING clause is used with GROUP BY clause and aggregate function. Reasoning(B): WHERE clause specifies the condition on individual rows or records.					
18.	Assertion (A): Cyber stalking is a form of	cybercrime.				
	Reasoning(B): Stealing money from some	71	of cybercrime.			
19	What is SQL?	SECTION-B				
	What is the purpose of GROUP BY claues?					
21.						
	Write two applications of cyber law.					
23.						
24.	What do you mean by cyber security?					
25.	Consider the string: "Database Management System". Write suitable SQL queries for the					
	following:					
	<ul><li>I. To extract and display "Manage" from the string.</li><li>II. Display the position of the first occurrence of "base" in the given string.</li></ul>					
	SECTION-C					
26.	Differentiate between WHERE and HAVIN					
27.	Describe measures to recycle your e-waste safety.					
28.	What do you understand by net etiquettes? Explain any two such etiquettes.					
	computer in a nearby empty field/plot.	-	ne. They decide to throw the old			
- ^	I. Explain any one potential environmental II. Suggest one responsible way to Ayesha' III. Describe the importance of recycling in	hazard associated with samily for proper distributed in e-waste management	th improper e-waste disposal.  sposal oftheir old computer.			
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**TITLE:** Indicates the book's title. **AUTHOR:** Specifies the author's name. **PRICE:** Lists the cost of the book. Table: BOOK PRIC BCODE TITLE AUTHOR Ε MIDNIGHT'S CHILDREN SALMAN RUSHDIE 500 B001 THE GOD OF SMALL **THINGS** ARUNDHATI ROY 450 B002 A SUITABLE BOY VIKRAM SETH 600 B003 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. What is identity theft? Explain with the help of an example. 4 32. SECTION-E What do you mean by phishing? Explain with the help of an example. 33. 5 34. Consider the DataFrame df shown below. 5 MovielD Title Rating Year 0 1 LAGAAN 2001 8.4 1 2 TAARE ZAMEEN PAR 2007 8.5 2 3 3 IDIOTS 2009 8.4 3 4 DANGAL 2016 8.4 5 **ANDHADHUN** 2018 8.3 Write Python statements for the DataFrame df to: I. Print the first two rows of the DataFrame df. II. Display titles of all the movies. III. Remove the column rating. IV. Display the data of the 'Title' column from indexes 2 to 4 (both included) V. Rename the column name 'Title' to 'Name'. 5 35 Write suitable SQL query for the following: I. To display the average score from the test results column (attribute) in the Exams table II. To display the last three characters of the registration number column (attribute) in the Vehicles table. (Note: The registration numbers are stored in the format DL-01-AV-1234) III. To display the data from the column (attribute) username in the Users table, after eliminating any leading and trailing spaces. IV. To display the maximum value in the salary column (attribute) of the Employees table. V. To determine the count of rows in the Suppliers table.