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**INDIAN SCHOOL SALALAH**  
**FINAL EXAMINATION, FEBRUARY 2025 (AY 2024-25)**

**Class: XI****INFORMATICS PRACTICES (065)****Date: 04/02/2025****Time: 3 Hrs****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	<b>State whether the following statement is True or False:</b> MySQL is an open source RDBMS software	1
2	What will be the value of x if $x = \text{int}(5 + 5 ** 2)$ a) 100 b) 30 c) ERROR d) 15	1
3	Identify mutable datatype in Python a) List b) float c) boolean d) None of these	1
4	The process of gathering data from different sources in digital form is _____	1
5	Identify the Error (7 + 11) a) Logical error b) Runtime error c) Syntax error d) None of the above	1

6	<p>Predict output:</p> <pre>x=5 y=x-5 if y&gt;x:     print(y) elif y&lt;x:     print(x) else:     print("Invalid")</pre> <p>a) 0 b) 5 c) "Invalid" d) None of the above</p>	1
7	<p><b>State whether the following statement is True or False:</b> Each key is separated from its value by a semicolon in dictionary.</p>	1
8	<p>A _____ is an unmanned aircraft which can be remotely controlled or can fly autonomously through software.</p>	1
9	<p>SQL keywords are case sensitive.</p> <p>a) All keywords are sensitive. b) None are sensitive. c) Some are sensitive. d) depends on version.</p>	1
10	<p>Which SQL clause is used to filter the records from a SQL query?</p> <p>a) From b) Where c) Add d) Order By</p>	1
11	<p>What is the purpose of the DELETE statement in SQL?</p> <p>a) To remove a table from the database b) To remove specific rows from the table c) To modify rows d) To create a table</p>	1
12	<p>In SQL, which keyword is used to sort the results in ascending order by default?</p> <p>a) Sort b) Order by c) where d) group</p>	1
13	<p>Which data type in MySQL is suitable for storing textual data?</p> <p>a) Date b) Boolean c) Int d) Varchar</p>	1

14	The most popular application of Blockchain technology is a) Open office b) Digital Currency c) GIMP d) None of the above	1
15	What is the Characteristics of Big Data? a) volume & velocity b) variety & veracity c) value d) All of the above	1
16	Which unit of the CPU is responsible for fetching and decoding instructions? a) ALU b) Control Unit c) Memory Unit d) Input Unit	1
17	The collection of 8-bits is called as - a) Byte b) Nibble c) Word d) Record	1
18	Which of the following groups are only input devices? a) Mouse, keyboard, monitor, Joystick b) Mouse, keyboard, printer, Light pen c) Mouse, keyboard, Scanner, Joystick, Light pen d) Mouse, keyboard, Trackball, Touch Screen, Microphone e) Both c and d	1
19	Hard disk is an example of _____ storage devices.	1
<p>Q 20 and 21 are ASSERTION AND REASONING based questions. Mark the correct choice as</p> <p>a) Both A and R are true and R is the correct explanation for A b) Both A and R are true and R is not the correct explanation for A c) A is True but R is False d) A is false but R is True</p>		
20	<b>Assertion (A):</b> Python is a high-level language <b>Reason (R):</b> Python is open source and case sensitive language.	1
21	<b>Assertion (A):</b> A database can have only one table. <b>Reasoning (R):</b> If a piece of data is stored in two places in a database, then it leads to wastage of storage space.	1

Q No.	Section-B (7 x 2 = 14 Marks)	Marks																
22	Write the code in Python to traverse the given dictionary. dict1 = {'Mohan':95,'Ram':89,'Suhel':92,'Sangeeta':85}	2																
23	What is Opensource software? Give one example of it.	2																
24	Explain any one application of Artificial Intelligence as given. a) Voice recognition b) Sensors c) NLP	2																
25	<b>Identify the code.</b> List1=[22,33,44,55,22] a) How to delete the element 55 from the given list. b) To add the new element 86 in the given list.	2																
26	<p><b>Table Name: Sports</b></p> <table border="1"> <thead> <tr> <th>Class</th> <th>Name</th> <th>Game</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>Sameer</td> <td>Cricket</td> <td>B</td> </tr> <tr> <td>8</td> <td>Karan</td> <td>Tennis</td> <td>B</td> </tr> <tr> <td>11</td> <td>Tamar</td> <td>Swimming</td> <td>A</td> </tr> </tbody> </table> <p>i) Write a query to display the details of the students whose Grade is 'B' and also of class 8 ii) Write a query to display all the details of the sports table.</p>	Class	Name	Game	Grade	8	Sameer	Cricket	B	8	Karan	Tennis	B	11	Tamar	Swimming	A	2
Class	Name	Game	Grade															
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27	<p><b>Table Name: Employee</b></p> <table border="1"> <thead> <tr> <th>Eno</th> <th>Ename</th> <th>Salary</th> <th>DeptID</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>Anup</td> <td>50000</td> <td>D01</td> </tr> <tr> <td>102</td> <td>Kirupa</td> <td>18000</td> <td>D02</td> </tr> <tr> <td>103</td> <td>Akshaya</td> <td>24000</td> <td>D03</td> </tr> </tbody> </table> <p>i) Write a query to display Ename which starts with 'A'. ii) Write a query to display the details of the Employee whose DeptID is D03.</p>	Eno	Ename	Salary	DeptID	101	Anup	50000	D01	102	Kirupa	18000	D02	103	Akshaya	24000	D03	2
Eno	Ename	Salary	DeptID															
101	Anup	50000	D01															
102	Kirupa	18000	D02															
103	Akshaya	24000	D03															
28	What is the Cardinality & Degree of the table.	2																
<b>Section-C (4 x 3 = 12 Marks)</b>																		
29	Write the output for the given code. List1=[22,33,44,55,22,77,88,44,55,44] a) List1.pop(4) b) List1.count(44) c) Len(List1) <span style="float: right;">(or)</span>	3																

	Write a program to enter any number and find the factorial of the number.																															
30	What is a System software ? Give two examples. <b>(or)</b> What is 3D printer ? Write its application in the Medical field.	3																														
31	Write a program to print the first 'n' multiples of given number. <b>(or)</b> Explain Len( ), Keys ( )& Values( ) functions of Dictionary. With its syntax.	3																														
32	<p><b>Table name: Customers</b></p> <table border="1"> <thead> <tr> <th>Cust_id</th> <th>First_name</th> <th>Last_name</th> <th>Phone</th> <th>Country</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>John</td> <td>Doe</td> <td>817-646-8833</td> <td>USA</td> </tr> <tr> <td>2</td> <td>Robert</td> <td>Luna</td> <td>412-862-0502</td> <td>USA</td> </tr> <tr> <td>3</td> <td>David</td> <td>Robinson</td> <td>205-340-7906</td> <td>UK</td> </tr> <tr> <td>4</td> <td>John</td> <td>Reinhardt</td> <td>307-242-6485</td> <td>UK</td> </tr> <tr> <td>5</td> <td>Betty</td> <td>Taylor</td> <td>307-242-6285</td> <td>UAE</td> </tr> </tbody> </table> <p>a) Write a query to delete the record with cust_id 2 in the given table. b) Write a query to display the column first_name as Name. c) Write a query to change the country name as India to all.</p>	Cust_id	First_name	Last_name	Phone	Country	1	John	Doe	817-646-8833	USA	2	Robert	Luna	412-862-0502	USA	3	David	Robinson	205-340-7906	UK	4	John	Reinhardt	307-242-6485	UK	5	Betty	Taylor	307-242-6285	UAE	3
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<b>Q No.</b>	<b>Section-D (2 x 4 = 8 Marks)</b>	<b>Marks</b>																														
33	Identify the output for the following Slicing operations in List.  list1 = ['Red', 'Green', 'Blue', 'Cyan', 'Magenta', 'Yellow', 'Black'] a) list1[ : 4] b) list1[-6 :-3] c) list1[ : : 2] d) list1[ : : -1]	4																														
34	<p><b>Table: TRAVELLERS</b></p> <table border="1"> <thead> <tr> <th>Pnr</th> <th>Flightno</th> <th>Aadharno</th> <th>Name</th> <th>PassportNo</th> <th>TravelDate</th> </tr> </thead> <tbody> <tr> <td>5155</td> <td>AI1883</td> <td>1122</td> <td>Arnav</td> <td>Y0065</td> <td>2023/02/15</td> </tr> <tr> <td>4289</td> <td>SJ2107</td> <td>2233</td> <td>Roshini</td> <td>X3409</td> <td>2024/04/23</td> </tr> <tr> <td>3705</td> <td>AV0069</td> <td>3443</td> <td>Kuldeep</td> <td>D1120</td> <td>2024/06/07</td> </tr> <tr> <td>2404</td> <td>AI1883</td> <td>5656</td> <td>Shami</td> <td>Y0014</td> <td>2023/07/13</td> </tr> </tbody> </table> <p>a) Change the passport no of Arnav as Z009. b) Write a query to display Aadharno and Names of the travellers from the given table whose travel date is 2023/07/13. c) Write a query to display all the Names of the travellers in ascending order. d) Remove the entire data from the table. <b>(or)</b> e) Write a query to create the given table.</p>	Pnr	Flightno	Aadharno	Name	PassportNo	TravelDate	5155	AI1883	1122	Arnav	Y0065	2023/02/15	4289	SJ2107	2233	Roshini	X3409	2024/04/23	3705	AV0069	3443	Kuldeep	D1120	2024/06/07	2404	AI1883	5656	Shami	Y0014	2023/07/13	4
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	<p>f) Write a query to display the details of the travellers whose Pnr is 4289 or Aadhar no 2233</p> <p>g) Remove the table from database</p>																																					
<b>Section-E (3 x 5 = 15 Marks)</b>																																						
<b>35</b>	<p>Our heritage monuments are our assets. They are a reflection of our rich and glorious past and an inspiration for our future. Write a Program to create a dictionary which stores names of monuments and their location. ( Keys=Names of the monuments , Values= The place where it is located)</p>	<b>5</b>																																				
<b>36</b>	<p><b>Table name: Books</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Book_id</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">Author</th> <th style="text-align: center;">Price</th> <th style="text-align: center;">Year</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">101</td> <td>The Alchemist</td> <td>Paulo Coelho</td> <td style="text-align: center;">300</td> <td style="text-align: center;">1988</td> </tr> <tr> <td style="text-align: center;">102</td> <td>To Kill a Mocking Bird</td> <td>Harper Lee</td> <td style="text-align: center;">350</td> <td style="text-align: center;">1960</td> </tr> <tr> <td style="text-align: center;">103</td> <td>Harry Potter</td> <td>J.K Rowling</td> <td style="text-align: center;">500</td> <td style="text-align: center;">1997</td> </tr> <tr> <td style="text-align: center;">104</td> <td>The Hobbit</td> <td>J.R.R Tolkien</td> <td style="text-align: center;">450</td> <td style="text-align: center;">1937</td> </tr> <tr> <td style="text-align: center;">105</td> <td>The Ship Wreck</td> <td>William Shakespear</td> <td style="text-align: center;">375</td> <td style="text-align: center;">1960</td> </tr> </tbody> </table> <p>a) Write a query to make the Book_id as Primary Key  b) Write a query to display the distinct data from the Year column.  c) Write query to display the title and price of books priced above 400.  d) Write a query to check the details of the book written by Paulo Coelho using membership operator.  e) Write a query to display the title of the books in descending order.</p>	Book_id	Title	Author	Price	Year	101	The Alchemist	Paulo Coelho	300	1988	102	To Kill a Mocking Bird	Harper Lee	350	1960	103	Harry Potter	J.K Rowling	500	1997	104	The Hobbit	J.R.R Tolkien	450	1937	105	The Ship Wreck	William Shakespear	375	1960	<b>5</b>						
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<b>37</b>	<p><b>Table: PHARMA.</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">RxID</th> <th style="text-align: center;">DrugID</th> <th style="text-align: center;">DrugName</th> <th style="text-align: center;">Price</th> <th style="text-align: center;">PharmNm</th> <th style="text-align: center;">PharmLoc</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">R1000</td> <td style="text-align: center;">5476</td> <td>Amlodipine</td> <td style="text-align: center;">100</td> <td>Rx Pharma</td> <td>Delhi</td> </tr> <tr> <td style="text-align: center;">R1001</td> <td style="text-align: center;">2345</td> <td>Paracetamol</td> <td style="text-align: center;">25</td> <td>Raj Medicos</td> <td>Haryana</td> </tr> <tr> <td style="text-align: center;">R1002</td> <td style="text-align: center;">1236</td> <td>Nebistar</td> <td style="text-align: center;">65</td> <td>Life Chemist</td> <td>Delhi</td> </tr> <tr> <td style="text-align: center;">R1003</td> <td style="text-align: center;">6512</td> <td>Vital Plus</td> <td style="text-align: center;">150</td> <td>Life Chemist</td> <td>Haryana</td> </tr> <tr> <td style="text-align: center;">R1004</td> <td style="text-align: center;">5631</td> <td>Levocitizine</td> <td style="text-align: center;">130</td> <td>Rx Pharma</td> <td>Delhi</td> </tr> </tbody> </table> <p>a. Write a query to insert a record to the given table.  (The prescription with RxID R1005 includes the drug Citrizine (DrugID 2222), priced at 15, provided by Life Chemist located in Indore).  b. Delete the column Price from the above table  c. Write a query to display RxID, DrugName, Price from the given table where price not equal to 25.  d. Write a query to add the column SNo.</p>	RxID	DrugID	DrugName	Price	PharmNm	PharmLoc	R1000	5476	Amlodipine	100	Rx Pharma	Delhi	R1001	2345	Paracetamol	25	Raj Medicos	Haryana	R1002	1236	Nebistar	65	Life Chemist	Delhi	R1003	6512	Vital Plus	150	Life Chemist	Haryana	R1004	5631	Levocitizine	130	Rx Pharma	Delhi	<b>5</b>
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