



Date: 29/08/22 GRADE: XII	FIRST TERMINAL EXAMINATION (2022-23) INFORMATICS PRACTICES	Max marks: 70 Time: 3 Hours
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General Instructions:

All questions are compulsory.

Qn. No	SECTION A	Marks allocated
1	To know the length of specified text, the _____ function is used.	1
2	Give example of any two aggregate functions in MySQL.	1
3	Which keyword is used to return only different values from table?	1
4	What is max() function in SQL?	1
5	What do you mean by degree and cardinality of table?	1
6	Which command is used to increase the salary of teachers in table CAMPUS? (Update / Alter)	1
7	A _____ MySQL function returns square of the given number.	1
8	Write a query to display details of all employees whose name (ENAME) end with alphabet 'A' from table EMPLOYEE .	1
9	What is the difference between having and where clause?	1
10	Write the output of the following: <div style="text-align: center;"> FEE 200 100 200 NULL 300 200 </div> SELECT AVG(FEE) FROM STUDENT;	1
11	Which command is used to display a list of already existing tables?	1
12	Name a few items that will fall under e-waste?	1
13	The _____ function returns remainder of specified two numbers.	1

14	Give two examples for social media.	1																		
15	To display a specific word from a text, _____ function is used.	1																		
16	The name and logo of a software will be protected by _____.	1																		
17	Jagan copies some contents from Internet, but do not mention the source or the original creator. This is an act of _____	1																		
18	Functional expression of the idea/invention will be protected by _____.	1																		
19	Write two wild card characters which are used with like operator?	1																		
20	Mr. Suresh wants to ignore the fractional part of the number. A _____ function will help him to serve his purpose.	1																		
SECTION B																				
21	What is the difference between CHAR and VARCHAR datatypes?	2																		
22	<p>Create a table named 'COLLEGE' with the following columns, constraints and data types.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Column Name</th> <th>Data Type & Size</th> <th>Constraints</th> </tr> </thead> <tbody> <tr> <td>CID</td> <td>Int(5)</td> <td>PRIMARY KEY</td> </tr> <tr> <td>CNAME</td> <td>CHAR(25)</td> <td>NOT NULL</td> </tr> <tr> <td>CTYPE</td> <td>CHR(30)</td> <td></td> </tr> <tr> <td>CPLACE</td> <td>VARCHAR(40)</td> <td></td> </tr> <tr> <td>CFEE</td> <td>DOUBLE(10,2)</td> <td>NOT NULL</td> </tr> </tbody> </table>	Column Name	Data Type & Size	Constraints	CID	Int(5)	PRIMARY KEY	CNAME	CHAR(25)	NOT NULL	CTYPE	CHR(30)		CPLACE	VARCHAR(40)		CFEE	DOUBLE(10,2)	NOT NULL	2
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23	What is the use of ORDER BY clause in SQL? Give a suitable example to illustrate the same.	2																		
24	Explain the concept of DML and DDL commands in SQL with suitable examples.	2																		
25	What is the use of DISTINCT keyword in SQL? Give an example.	2																		
26	<p>Correct the error in the following query: SELECT * FROM JOURNAL WHERE NAME = NULL; Also mention the purpose of the query.</p>	2																		
27	What is the difference between primary key and unique constraint?	2																		
28	<p>SELECT COUNT(*) FROM BOOK; - Statement 1 SELECT COUNT(BNAME) FROM BOOK; - Statement 2</p> <p>The first statement return return 10 and and the second statement return 9. How many rows will be there in the above table named 'BOOK'. Justify your answer.</p>	2																		

29	What is the difference between alter and update command? Give examples to illustrate the same.	2																																								
30	After practical's, Manoj left the computer lab but forgot to sign off his email account. Later his classmate uses the same computer and using Manoj's account sent some inflammatory messages to his classmates. This activity is an example of _____.	2																																								
SECTION C																																										
31	Write the output of the following statements: a. SELECT ROUND(1245.271, 1); b. SELECT ROUND(448.723,-2); c. SELECT MOD(24, 3); d. SELECT POW(3, 3);	4																																								
32	Predict the output: a. SELECT MONTHNAME("2022-08-29"); b. SELECT MID("DATABASE QUERY USING SQL", 3, 7); c. SELECT LENGTH(LEFT("ONAM CELEBRATIONS 2022", 10)); d. SELECT LEFT("GOOD TO GREAT", 6);	4																																								
33	a. Compare Single Row Functions and Group Functions (2 differences each) b. Consider the following table and answer the following queries: Table: Bank	4																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>id</th> <th>Salary</th> <th>Designation</th> <th>Bankname</th> <th>Cardtype</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25000</td> <td>Clerk</td> <td>SBI</td> <td>Credit</td> </tr> <tr> <td>2</td> <td>22000</td> <td>Clerk</td> <td>SIB</td> <td>Debit</td> </tr> <tr> <td>3</td> <td>18000</td> <td>Receptionist</td> <td>Axis</td> <td>Credit</td> </tr> <tr> <td>4</td> <td>50000</td> <td>Manager</td> <td>SIB</td> <td>Credit</td> </tr> <tr> <td>5</td> <td>45000</td> <td>Manager</td> <td>Axis</td> <td>Debit</td> </tr> <tr> <td>6</td> <td>40000</td> <td>Manager</td> <td>Axis</td> <td>Debit</td> </tr> <tr> <td>7</td> <td>15000</td> <td>Receptionist</td> <td>SBI</td> <td>Credit</td> </tr> </tbody> </table> <p>(i) Display the total salary received by each designation. (ii) Display the number of people in each category of Cardtype from the table Bank.</p>			id	Salary	Designation	Bankname	Cardtype	1	25000	Clerk	SBI	Credit	2	22000	Clerk	SIB	Debit	3	18000	Receptionist	Axis	Credit	4	50000	Manager	SIB	Credit	5	45000	Manager	Axis	Debit	6	40000	Manager	Axis	Debit	7	15000	Receptionist	SBI	Credit
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7	15000	Receptionist	SBI	Credit																																						
34	Give full forms: a. IPR b. EULA c. FOSS d. CC (Ref. to public license)	4																																								

35	<p>Kiran received an SMS given below from his bank.</p> <p>"Please send the pin number to the given contact number"</p> <p>a. Justify your answer in the above situation. b. Is it mandatory to check with the bank, for all such cases?</p>	4
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SECTION C

36	<p>Consider the table 'Doctor' and answer the following queries:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>ID</th> <th>Name</th> <th>Dept</th> <th>Gender</th> <th>Experience</th> <th>Consultation</th> </tr> </thead> <tbody> <tr><td>201</td><td>Jaya Reddy</td><td>ENT</td><td>F</td><td>12</td><td>700</td></tr> <tr><td>202</td><td>Sanjay Pandey</td><td>Medicine</td><td>M</td><td>5</td><td>700</td></tr> <tr><td>203</td><td>Rakesh Mittal</td><td>Orthopedic</td><td>F</td><td>10</td><td>600</td></tr> <tr><td>204</td><td>ShaliniLakra</td><td>Skin</td><td>F</td><td>4</td><td>400</td></tr> <tr><td>205</td><td>Ajay Singh</td><td>Cardiology</td><td>M</td><td>9</td><td>550</td></tr> <tr><td>206</td><td>ArunBissa</td><td>Medicine</td><td>M</td><td>15</td><td>800</td></tr> <tr><td>207</td><td>GurmeetKheda</td><td>Orthopedic</td><td>M</td><td>11</td><td>700</td></tr> <tr><td>208</td><td>Malini Shankar</td><td>ENT</td><td>F</td><td>7</td><td>500</td></tr> <tr><td>209</td><td>Jubaida Hassan</td><td>Medicine</td><td>F</td><td>6</td><td>500</td></tr> <tr><td>210</td><td>Tia jena</td><td>Neurology</td><td>F</td><td>2</td><td>300</td></tr> </tbody> </table> <p>a. Display the average consultation charges of all doctors having more than 5-year experience.</p> <p>b. Display minimum consultation charge of male doctors.</p> <p>c. Display the female doctor's name and experience of those doctors in ENT or Medicine.</p> <p>Predict the output</p> <p>d. SELECT NAME FROM DOCTOR WHERE NAME LIKE '%A';</p> <p>e. SELECT COUNT(*) FROM DOCTOR;</p>	ID	Name	Dept	Gender	Experience	Consultation	201	Jaya Reddy	ENT	F	12	700	202	Sanjay Pandey	Medicine	M	5	700	203	Rakesh Mittal	Orthopedic	F	10	600	204	ShaliniLakra	Skin	F	4	400	205	Ajay Singh	Cardiology	M	9	550	206	ArunBissa	Medicine	M	15	800	207	GurmeetKheda	Orthopedic	M	11	700	208	Malini Shankar	ENT	F	7	500	209	Jubaida Hassan	Medicine	F	6	500	210	Tia jena	Neurology	F	2	300	5
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37	<p>Preeti and Hima are friends. Preeti shared some of her photos with Hima through social media. After some days, they had some fight. So, Preeti deleted those photos from social media so that her friend cannot access those photos. Late in the evening, to her surprise, she saw that one of the images she had already deleted from social networking was available with their common friend Sita. Preeti enquired about this to Sita and found that Hima forwarded the image to her.</p> <p>Help Preeti to get answers for the following questions. Give justification for your answers that Preeti can understand it clearly.</p> <ul style="list-style-type: none">a. How could Hima access an image which she had already deleted?b. Can anybody else also can access these deleted images?c. Had these images not been deleted from her digital footprint?d. Give an example of Cyber Crimee. Compare copyright and license.	5
THE END		