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**SET**

**A**



**INDIAN SCHOOL MUSCAT  
SECOND TERM EXAMINATION  
INFORMATICS PRACTICES(065)**

**CLASS: XI**

**TERM 2**

**Time Allotted: 2HRS.**

**14.02.2022**

**Max.Marks: 35**

**MARKING SCHEME**

**GENERAL INSTRUCTIONS:**

Read the questions carefully before writing the answer(s).

1.	How alter command is different from Alter ?Explain with an example Alter : This command is used to change the structure of the table ½ mark example 1/2 mark Update : This command is used to change the table value(s) ½ mark example ½ mark	2
2.	Explain the following TCL commands.  1) Commit - used to save all the transaction permanently 1 mark 2) Roll Back- undo the above change 1 mark	2
3.	What is wrong in the following command. Explain with the correct command.  DELETE * from emp where dept no =10; Ans : delete from emp where deptno =10; 2 mark	2
4.	Find the output of the following:  1.select mid("Super World 2022",7,5) from dual;  Wrold  2.select char(66,65) from dual;  BA (or)  Explain  1. Mid ( ) - This function is used to extract the number of characters based on the position specified 2. Char( ) : This function is used to print the character value based on the ASCII value(s) passed. 1+1 = 2mark	2

5.	<p>Mr. Hari wants to sort all the records from the table EMP345 based on employees name (Field name is : ENAME) .He wrote the following query as</p> <p>Select * from emp345 sort by ename;</p> <p>But the query shows an error. Write the correct select command to sort the records based on the employees name.</p> <p>Ans : select * from emp345 order by ename; 2 marks</p>	2
6.	<p>Explain the use of Distinct key word with an example.</p> <p>Proper Explanation 1 mark and an example 1 mark</p>	2
7.	<p>What is the use of Group By clause in MySQL? Explain with an example.</p> <p>Group by : it is used to keep all the similar records together 1mark</p> <p>Proper example – 1mark</p>	2
8.	<p>Predict the output:</p> <p>1.Select length("Master Mind 2022");</p> <p>16 - 1 mark</p> <p>2.Select lower(substr("HelloWorld2022",3,5))</p> <p>lloWo - 1 mark</p> <p style="text-align: center;">(or)</p> <p>Explain the following:</p> <ol style="list-style-type: none"> <li>1. Length() – This function is used to count number of characters including blank spaces.</li> <li>2. lower() – This function is used to convert all the upper case characters in to lower case characters.</li> </ol> <p>1+1=2 marks</p>	2
9.	<p>Write any two features of MySql.</p> <ul style="list-style-type: none"> <li>• Platform independent</li> <li>• Relational Database Management System (RDBMS) MySQL is a relational database management system. ...</li> <li>• Easy to use. MySQL is easy to use. ...</li> <li>• It is secure. ...</li> <li>• Client/ Server Architecture. ...</li> <li>• Free to download. ...</li> <li>• It is scalable. ...</li> <li>• Speed. ...</li> <li>• High Flexibility.</li> </ul> <p>Any 2 features 1+1 = 2marks</p>	2
10.	<p>Define Constraint. Write any two constraint(s) name.</p> <p>Constraint: It is a rule the table should follow all the time – 1mark</p> <p>Any valid constraints like Primary key , Unique key ,not null , default , candidate key ,</p>	2

	foreign key (any 2 - 1 mark)																																																																																					
11.	<p>What do you understand by the term 1. Cardinality 2. Degree? Explain with an example.</p> <p>Cardinality - Number of rows in a table Example <math>\frac{1}{2} + \frac{1}{2} = 1</math> mark</p> <p>Degree - Number of Columns in a table Example - <math>\frac{1}{2} + \frac{1}{2} = 1</math> mark</p>	2																																																																																				
12.	<p>Write Query to create the following table Table name:Main_data</p> <table><tr><td>Filed Name</td><td>Data Type</td><td>Size</td><td>Constraint</td></tr><tr><td>Reg_No</td><td>Int</td><td>4</td><td>Primary Key</td></tr><tr><td>Event_Name</td><td>Char</td><td>20</td><td>Not Null</td></tr><tr><td>No_of_Participants</td><td>Int</td><td>2</td><td></td></tr><tr><td>Remarks</td><td>Char</td><td>30</td><td></td></tr></table> <p>Using create statement with the proper syntax 2 marks</p> <p>(or)</p> <p>Define</p> <p>1. Table with an example - Made up of rows and columns and it is sused to store the data in an organised way. <math>\frac{1}{2}</math> mark example <math>\frac{1}{2}</math> mark</p> <p>2. Primary key with an example it is used to identify the records uniquely no null values allowed - <math>\frac{1}{2}</math> mark valid example <math>\frac{1}{2}</math> mark</p>	Filed Name	Data Type	Size	Constraint	Reg_No	Int	4	Primary Key	Event_Name	Char	20	Not Null	No_of_Participants	Int	2		Remarks	Char	30		2																																																																
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13.	<table><tr><th colspan="7">Table : STUDENT1</th></tr><tr><th>No.</th><th>Name</th><th>Stipend</th><th>Stream</th><th>AvgMark</th><th>Grade</th><th>Class</th></tr><tr><td>1</td><td>Karan</td><td>400.00</td><td>Medical</td><td>78.5</td><td>B</td><td>12B</td></tr><tr><td>2</td><td>Divakar</td><td>450.00</td><td>Commerce</td><td>89.2</td><td>A</td><td>11C</td></tr><tr><td>3</td><td>Divya</td><td>300.00</td><td>Commerce</td><td>68.6</td><td>C</td><td>12C</td></tr><tr><td>4</td><td>Arun</td><td>350.00</td><td>Humanities</td><td>73.1</td><td>B</td><td>12C</td></tr><tr><td>5</td><td>Sabina</td><td>500.00</td><td>Nonmedical</td><td>90.6</td><td>A</td><td>11A</td></tr><tr><td>6</td><td>John</td><td>400.00</td><td>Medical</td><td>75.4</td><td>B</td><td>12B</td></tr><tr><td>7</td><td>Robert</td><td>250.00</td><td>Humanities</td><td>64.4</td><td>C</td><td>11A</td></tr><tr><td>8</td><td>Rubina</td><td>450.00</td><td>Nonmedical</td><td>88.5</td><td>A</td><td>12A</td></tr><tr><td>9</td><td>Vikas</td><td>500.00</td><td>Nonmedical</td><td>92.0</td><td>A</td><td>12A</td></tr><tr><td>10</td><td>Mohan</td><td>300.00</td><td>Commerce</td><td>67.5</td><td>C</td><td>12C</td></tr></table>	Table : STUDENT1							No.	Name	Stipend	Stream	AvgMark	Grade	Class	1	Karan	400.00	Medical	78.5	B	12B	2	Divakar	450.00	Commerce	89.2	A	11C	3	Divya	300.00	Commerce	68.6	C	12C	4	Arun	350.00	Humanities	73.1	B	12C	5	Sabina	500.00	Nonmedical	90.6	A	11A	6	John	400.00	Medical	75.4	B	12B	7	Robert	250.00	Humanities	64.4	C	11A	8	Rubina	450.00	Nonmedical	88.5	A	12A	9	Vikas	500.00	Nonmedical	92.0	A	12A	10	Mohan	300.00	Commerce	67.5	C	12C	
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	Write the SQL commands for the following questions.	
	1. Write a query to display all the students name who are all from "A" section. Select name from student where class like "%A";	1
	2. Write a Query to display all the students name in descending order of their stipend. Select name from student order by stipend;	1
	3. Write a Query to list out all the details of students who are all from commerce stream Select * from student where stream ="commerce"	1
	4. Write a Query to display all the students name and their class whose average mark is less than 65. Select name, class from student where avgmark < 65;	1
	5. Write a Query to list out all the students name whose class is 12B and Grade is "A" Select name from student where class="12B" and grade="A";	1
	6. Write a Query to count how many students are there in each class Select class, count(*) from student group by class;	1
14.	<p>Define the Term "AI" and write any one goal of "AI".</p> <p>Artificial Intelligence is comprised of two words Artificial and Intelligence, where Artificial means "man-made," and intelligence means "thinking power", hence AI means "man-made thinking power." 1/2 mark</p> <p>Goals of AI</p> <ul style="list-style-type: none"> <li>• To Create Expert Systems – These systems which hold intelligent behavior, learn, demonstrate, explain, and advise its users.</li> <li>• To Implement Human Intelligence in Machines – Creating systems that can understand, think, learn, and behave like humans.</li> </ul> <p>Any one goal - ½ mark</p>	1
15.	<p>What do you understand by "Machine Learning"?</p> <p><b>Machine Learning is a system that can learn from example through self-improvement and without being explicitly coded by programmer.</b>  <b>As its name, it gives the computer that makes it more similar to humans: The ability to learn.</b> 1 mark</p>	1
16.	<p>Write any two advantages of NLP. Any 2 points ½ + 1/2 = 1 mark</p> <p><b>Advantages of NLP</b></p> <ul style="list-style-type: none"> <li>• NLP helps to get a direct response within seconds.</li> <li>• NLP offers exact answers to the question</li> <li>• NLP helps to communicate with humans in their languages.</li> <li>• It is very time efficient.</li> <li>• To improve the efficiency of documentation processes, accuracy of documentation, and identify the information from large databases</li> </ul>	1
17.	<p>Write any four applications of VR.</p> <ul style="list-style-type: none"> <li>• Automotive industry</li> <li>• Healthcare</li> </ul>	1

	<ul style="list-style-type: none"> <li>•Retail</li> <li>•Tourism</li> <li>•Real estate</li> <li>•Architecture</li> <li>•Gambling</li> <li>•Learning and Development</li> </ul> <p>Any 2 = <math>\frac{1}{2} + \frac{1}{2} = 1</math> mark</p>	
18.	<p>Define IOT.</p> <p><b>Internet of Things-IOT</b></p> <p>The IOT concept was initially proposed by a member of the Radio Frequency Identification (RFID) development community in 1999, and now it has become more relevant to the practical world as the use of mobile devices, embedded devices, communication, cloud computing and data analytics has increased.</p> <p>1 mark</p>	1
	<b>End of the Question Paper</b>	

