



B-TAG

[Bharat - Transformers Academic Group]

Model Question Paper

**CBSE Term II
2022**

Informatic Practices

**Set 1
Class
XII**

In collaboration with



**CBSE BHARAT
SAHODAYA COMPLEX**



CBSE BHARAT SAHODAYA COMPLEX



MODEL QUESTION PAPER GRADE XII INFORMATICS PRACTICES (Code: 065)

Maximum Marks: 35

Time: 2 hours

General Instructions

- The question paper is divided into 3 sections – A, B and C
- Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- Section C, consists of 3 questions (11-13). Each question carries 4 marks.
- Internal choices have been given for question numbers – 1, 3, 8 and 12.

Q. No	Section –A Each question carries 2 marks	Marks															
1	Answer the following questions: <ol style="list-style-type: none"> Name the network device used to connect two or more dissimilar networks. What is the purpose of server in a network? 	2															
2	How are static webpages different from a dynamic webpage?	2															
3	<ol style="list-style-type: none"> Briefly explain about TRIM(). Consider the string Str="\$\$\$\$MY\$\$\$\$FAVOURITE\$\$\$\$SUBJECT\$\$\$\$" where \$ denotes a blank space. Write the SQL statement and its corresponding output when TRIM() is applied on the string "Str". <p style="text-align: center;">OR</p> Write the output for the following SQL Queries: <ol style="list-style-type: none"> Select Round(79.9865,2); Select Truncate(34.57683,3); Select POWER(DAYOFMONTH(Curdate()),2); Select Concat("BLACK",MID("CBSE BOARD EXAMINATION", 6,5)); 	2															
4	<ol style="list-style-type: none"> WHO AM I? <ul style="list-style-type: none"> I am a technology that allows to make voice calls using internet instead of regular phone lines. I can convert voice into a digital signal that travels over the internet. I can make a call directly from the computer. What does the following terms stand for? <ol style="list-style-type: none"> SMTP POP3 	2															
5	Predict the output of the following SQL Queries: <ol style="list-style-type: none"> select UCASE(replace("CBSE board exam","exam","examination 2021-22")); select concat("inter",substr("Examination",6,6),"al"),length(concat("inter",substr("Examination",6,6),"al")) as "LENGTH"; 	2															
6	Write any one difference for the following: <ol style="list-style-type: none"> Single row functions and Multiple row functions String functions and Numeric functions 	2															
7	The HR manager of Toyota company created a table for the employees to store their details' TableName: Emp_Details <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>E_id</th> <th>Emp_Name</th> <th>Dept</th> <th>DOB</th> <th>DOJ</th> </tr> </thead> <tbody> <tr> <td>T001</td> <td>Melissa</td> <td>IT</td> <td>1994-02-11</td> <td>2020-02-02</td> </tr> <tr> <td>T002</td> <td>Ryan</td> <td>Accounts</td> <td>1997-01-04</td> <td>2019-05-11</td> </tr> </tbody> </table>	E_id	Emp_Name	Dept	DOB	DOJ	T001	Melissa	IT	1994-02-11	2020-02-02	T002	Ryan	Accounts	1997-01-04	2019-05-11	2
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8	<p>a) What is the difference between having clause and where clause.</p> <p>b) Somi is using the table named "Student_details" which has the following columns: Stud_id, Stud_name, Class, DIV, Stream. He wants the count of students in each stream and he wrote the following command: Select Stream, Count(Stud_Name) from Student_details;</p> <p>Help her to rewrite the query with necessary changes to help her to get desired output.</p> <p style="text-align: center;">OR</p> <p>Answer the following questions:</p> <p>I. A table 'Student' contains 4 rows and 6 columns initially. 2 more rows are added and 1 more column is added . What will be the degree and cardinality of the table student after adding these rows and columns?</p> <p>II. The now() function is an example of which type of function.</p> <p>III. Write the output for the following SQL command: select MOD(11,4) "Modulus", power(3,2) "Raised";</p>	3																																								
9	<p>Consider the decimal value 3789.8988. Write SQL commands for the following:</p> <p>a. That gives output 3790</p> <p>b. That gives output 3789.9</p> <p>c. That gives output 3800</p>	3																																								
10	<p>Teena is working on MYSQL functions. Help her to answer the following questions:</p> <p>a. How do we find the position of "Birth" from the string "Happy Birthday"?</p> <p>b. Predict the output for the above question.</p> <p>c. How many parameters does the function mentioned in question (a) accept?</p>	3																																								
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11	<p>A table named Sales is given below:</p> <table border="1"> <thead> <tr> <th>Sales_id</th> <th>Sales_name</th> <th>Salary</th> <th>Bonus</th> <th>DOJ</th> <th>Place</th> </tr> </thead> <tbody> <tr> <td>A01</td> <td>Sherin</td> <td>42000</td> <td>450</td> <td>21-10-2018</td> <td>AP</td> </tr> <tr> <td>D03</td> <td>Shine</td> <td>30000</td> <td>200</td> <td>11-01-2018</td> <td>Delhi</td> </tr> <tr> <td>A04</td> <td>Jack</td> <td>20000</td> <td>330</td> <td>15-06-2015</td> <td>Ajmer</td> </tr> <tr> <td>B06</td> <td>Kenneth</td> <td>35000</td> <td>250</td> <td>18-03-1987</td> <td>Karnataka</td> </tr> </tbody> </table>	Sales_id	Sales_name	Salary	Bonus	DOJ	Place	A01	Sherin	42000	450	21-10-2018	AP	D03	Shine	30000	200	11-01-2018	Delhi	A04	Jack	20000	330	15-06-2015	Ajmer	B06	Kenneth	35000	250	18-03-1987	Karnataka	4										
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D04	Johnson	28000	280	19-05-1988	AP
B06	Fredrick	15000	340	21-11-1995	Delhi
A02	Dany	17000	280	11-11-2018	AP

Write SQL commands for the following:

- Count the number of salesman area-wise
- Display the year of joining of those salesman who lives in the places "Delhi" and "AP".
- Display the total salary paid to all salesman area-wise.
- Display the details of salesman whose has the letter "s" in their names.

OR

Predict the output for the following SQL queries:

- Select Sales_id, Sales_name from Sales where place="Delhi" and Bonus<300;
- Select Max(Salary),Min(Salary) from Sales where year(DOJ)=2018;
- Select SUM(Salary) from Sales group by Place having count(*)>2;
- Select count(distinct Place) from sales;

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T_id	Name	Age	Dept	DOJ	Salary	Gender
1	Arun	26	Science	10-01-97	12000	M
2	Sulthana	28	English	24-03-98	20000	F
3	Sumina	33	Computer	12-12-96	30000	F
4	Anusree	25	Computer	01-07-97	40000	F
5	Simi	21	Science	05-09-99	25000	F
6	Ruby	35	Science	30-06-98	30000	F
7	Biju	38	English	31-03-97	21000	M
8	Vysakh	36	Science	12-04-95	20000	M
9	Nithin	26	Maths	25-08-99	15000	M
10	Nandakishore	26	English	16-11-97	35000	M

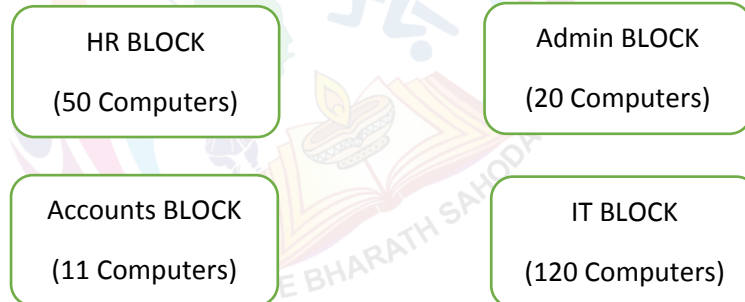
Table Name: Teaching_staff

Write SQL queries for the following:

- Convert all names into upper case in ascending order of their names.
- Display the position of occurrence of the string "th" in the names.
- Display the month name for the Date of joining
- Display the four characters from department starting from the first character as DEPARTMENTS.

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Center to Center distance between various blocks:

HR to Admin : 150 Mtr HR to Accounts : 250 Mtr

Admin to Accounts : 200 Mtr HR to IT : 75 Mtr

Admin to IT : 130 Mtr Accounts to IT : 180 Mtr

Computers in each block are networked but blocks are not networked with each other. The company has now decided to connect the wings also.

- Suggest the most appropriate network topology of the connection between the wings.
- Identify the block that can be designated as the server for the company
- Suggest the placement of the following devices with justification if the company wants minimised network traffic:

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	<p>(i) Repeater (ii) Hub/Switch</p> <p>d) Name the device that will be required to protect the network from unwanted and unauthorised accesses from outside the network.</p>	
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