

# KENDRIYA VIDYALAYA SANGATHAN, SILCHAR REGION

## INFORMATICS PRACTICES (Code: 065)

Class: XII

### Pre-Board Question Paper

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.
- Programming Language -Python, MySql.

Q. No	Part No	Section –A Each question carries 2 mark	Marks
1		What kind of network is formed? i) when you connect your laptop with your friend's mobile using Bluetooth ii) computer network within a university campus. <b>OR</b> What is the difference between Static and Dynamic Webpage?	2
2	i)	Beauty Lines Fashion Inc. is a fashion company with design unit and market unit 135m away from each other. The company recently connected their LANs using Ethernet cable to share the stock related information. But after joining their LANs, they are not able to share the information due to loss of signal in between. Which device you suggest to be installed for a smooth communication?	1
	ii)	Identify the following device: Devices that are used to connect different types of networks. It performs the necessary translation so that the connected networks can communicate properly.	1
3		Predict the output of the following queries: SELECT SUBSTR('ABCDEFG', -5, 3) SELECT left("Jammu Region", 5); <b>OR</b> Briefly explain the purpose of the following SQL functions: i. SUBSTR() ii. LEFT()	
4		Mr. Ramesh is not able to identify the Domain Name and document name in the given URL. Identify and write it for him. <a href="http://www.cbsenic.in/aboutus.htm">http://www.cbsenic.in/aboutus.htm</a>	2
5		Predict the output of the following queries: i. Select power(5,2); ii. Select mod(5,2);	2
6		Anjali writes the following commands with respect to a table employee having fields, empno, name, department, commission.	2

	<p>Command1 : Select count(*) from employee;  Command2: Select count(commission) from employee;  She gets the output as 4 for the first command but gets an output 3 for the second command. Explain the output with justification.</p>																
7	<p>Assume we have the following "Orders" table:</p> <table border="1"> <thead> <tr> <th>OrderId</th> <th>ProductName</th> <th>OrderDate</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Geitost</td> <td>2021-11-11</td> </tr> <tr> <td>2</td> <td>Camembert Pierrot</td> <td>2008-11-09</td> </tr> <tr> <td>3</td> <td>Mozzarella di Giovanni</td> <td>2008-11-11</td> </tr> <tr> <td>4</td> <td>Mascarpone Fabioli</td> <td>2008-10-29</td> </tr> </tbody> </table> <p>1. Display all the orders which was done in November.  2. Display the latest ordered product and its date.</p> <p><b>Or</b>  Predict the output :</p> <p>1. select orderid from Orders where year(OrderDate)=2008;  2. select Day(OrderDate) from Orders;</p>	OrderId	ProductName	OrderDate	1	Geitost	2021-11-11	2	Camembert Pierrot	2008-11-09	3	Mozzarella di Giovanni	2008-11-11	4	Mascarpone Fabioli	2008-10-29	2
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	<p><b>SECTION – B</b>  <b>Each question carries 3 marks</b></p>																
8	<p>Consider a string “AS YOU know MORE”  Write the queries for the following tasks.</p> <p>i) Write a command to display “know”.  ii) Write a command to display number of characters in the string.  iii) Write a command to check the first occurrence of letter ‘O’</p> <p style="text-align: center;"><b>OR</b></p> <p>Consider a string str , “You Grow more” stored in a column str. What will be the output of the following queries?</p> <p>i) SELECT UPPER(str);  ii) SELECT substr(str,-9,4);  iii) SELECT Right(str,4)</p>	3															
9	<p>A relation Vehicles is given below :</p>	3															

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10		<p>Gopi Krishna is using a table EMPLOYEE. It has the following columns: Code, Name, Salary, Deptcode. He wants to display maximum salary Departmentwise. He wrote the following command:</p> <p><b>SELECT Dept code, Max(Salary) FROM EMPLOYEE;</b></p> <p>But he did not get desired result.</p> <p>Rewrite the above query with necessary change to help him get the desired output and explain the reason.</p>	3																																			
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11.		<p><b>Table: GARMENT</b></p> <table border="1"> <thead> <tr> <th>G CODE</th> <th>G NAME</th> <th>SIZE</th> <th>COLOUR</th> <th>PRICE</th> </tr> </thead> <tbody> <tr> <td>111</td> <td>T Shirt</td> <td>XL</td> <td>Red</td> <td>1400.00</td> </tr> <tr> <td>112</td> <td>Jeans</td> <td>L</td> <td>Blue</td> <td>1600.00</td> </tr> <tr> <td>113</td> <td>Skirt</td> <td>M</td> <td>Black</td> <td>1100.00</td> </tr> <tr> <td>114</td> <td>Ladies Jacket</td> <td>XL</td> <td>Blue</td> <td>4000.00</td> </tr> <tr> <td>115</td> <td>Trousers</td> <td>L</td> <td>Brown</td> <td>1500.00</td> </tr> <tr> <td>116</td> <td>Ladies Toop</td> <td>L</td> <td>Pink</td> <td>1200.00</td> </tr> </tbody> </table> <p>Consider the table Garment and write the query:</p> <ol style="list-style-type: none"> <li>Display the Minimum price of the Garment.</li> <li>Count and display the number of GARMENT from each SIZE where number of GARMENTS are more than 1</li> <li>Display the sum of price of each color garment</li> <li>Display average price of XL size garments.</li> </ol>	G CODE	G NAME	SIZE	COLOUR	PRICE	111	T Shirt	XL	Red	1400.00	112	Jeans	L	Blue	1600.00	113	Skirt	M	Black	1100.00	114	Ladies Jacket	XL	Blue	4000.00	115	Trousers	L	Brown	1500.00	116	Ladies Toop	L	Pink	1200.00	4
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12.		<p>Consider the below mentioned table of 'CLOTH'</p> <table border="1"> <thead> <tr> <th>DCODE</th> <th>DESCRIPTION</th> <th>PRICE</th> <th>MCODE</th> <th>LAUNCHDATE</th> </tr> </thead> <tbody> <tr> <td>10001</td> <td>FORMAL SHIRT</td> <td>1250</td> <td>M001</td> <td>12-JAN-08</td> </tr> <tr> <td>10020</td> <td>FROCK</td> <td>750</td> <td>M004</td> <td>09-SEP-07</td> </tr> </tbody> </table>	DCODE	DESCRIPTION	PRICE	MCODE	LAUNCHDATE	10001	FORMAL SHIRT	1250	M001	12-JAN-08	10020	FROCK	750	M004	09-SEP-07																					
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10012	INFORMAL SHIRT	1450	M002	06-JUN-08
10019	EVENING GOWN	850	M003	06-JUN-08
10090	TULIP SKIRT	850	M002	31-MAR-07
10023	PENCIL SKIRT	1250	M003	19-DEC-08
10089	SLACKS	850	M003	20-OCT-08

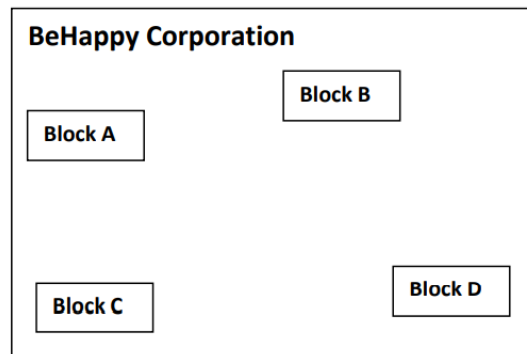
**Write the commands for the following:**

- (a) Display first three letters of description e.g. 'FRO' for 'FROCK'
- (b) Display the description after removing leading spaces if any.
- (c) Display the number of MCODE in the table.
- (d) Display the day of the LAUNCHDATE. Eg. 'Monday', 'Tuesday' etc

**OR**

- (e) Display total price of products launched in year 2008.
- (f) Display minimum price of product for each material code(MCODE).
- (g) Display the most recent LAUNCHDATE.
- (h) Display remainder of price divided by 10.

BeHappy Corporation has set up its new centre at Noida, Uttar Pradesh for its office and web-based activities. It has 4 blocks of buildings.



**Distance between the various blocks is as follows:**

A to B	40 m
B to C	120m
C to D	100m
A to D	170m
B to D	150m
A to C	70m

**Numbers of computers in each block**

Block A	25
Block B	50
Block C	125
Block D	10

- a) Suggest and draw the cable layout to efficiently connect various blocks of buildings within the Noida centre for connecting the digital devices
- b) Suggest the placement of the following device with justification
  - i. Repeater
  - ii. Hub/Switch
- c) Which kind of network (PAN/LAN/WAN) will be formed if the Noida office is connected to its head office in Mumbai?
- d) Suggest a most suitable place(unit) to install server with justification.