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Code Number 065/2



INDIAN SCHOOL MUSCAT
FIRST PRELIMINARY EXAMINATION 2017
INFORMATICS PRACTICES

CLASS: XII

Sub. Code: 065

Time Allotted: 3 Hrs.

12.12.2017

Max. Marks: 70

Instructions:

1. All the questions are compulsory
2. Read the Question carefully and write the Answer

- | | | |
|---|--------------------------------------------------------------------------------------------------------|---|
| 1 | (a) Which protocol is used for transferring the files to and from a remote host? | 1 |
| | (b) What is snooping? | 1 |
| | (c) Define the following: Repeater and a Gateway | 2 |
| | (d) Write one point of difference between a freeware and free software? | 2 |
| | (e) Which transmission medium should be used to transfer data across two countries at very high speed? | 2 |
| | (f) Give any one advantage and one disadvantage of star topology? | 1 |
| | (g) An Internet Service Provider has a network within a city area. Which type of network is it? | 1 |
| 2 | (a) Which method of JFrame is used to close the frame without closing the NETBEANS application. | 1 |
| | (b) Write a java code that accepts two numbers from the user and print the smaller one. | 2 |
| | (c) What will be the value of sum after executing the following code: | 2 |
| | <pre>int sum= 0, x; for (x=1; x <=5; ++ x) { sum+=x; }</pre> | |
| | (d) What is the difference between Entry Level Loop and Exit Level Loop? Explain with an Example. | 2 |

- (e) While working with Netbeans, Ashita included a TextArea control which contains a list of students. What code she should write to add one more student name at the end of the TextArea? 1
- (f) How many times does the following loop execute? What is its type (Entry controlled or Exit controlled)? 2
- ```
int x=2,y=20;
while(x <= y)
{
 JOptionPane.showMessageDialog(null, " " + x);
 x=x+4;
}
```
- 3 (a) Which command is used in Mysql to discard the changes in database? 1
- (b) Raju wants to change the schema of the table “ STUDENT ” which already exists in the database STUD1234. Which command he will use. 1
- (c) What is the purpose of the following query. 1
- `SELECT COUNT(*) FROM ELECTION GROUP BY city.`
- (d) Manav created a table student in Mysql. He does not require the email\_id column available in the student table. Which command will he issue to remove the email\_id from the student table? 1
- (e) Define Equi- Join and Cross Join with an example. 2
- (f) The CoachName column of a table “Club” is given below: 2
- | CoachName |
|-----------|
| Raghav    |
| Sumit     |
| Anurag    |
| Rohit     |
| Lucky     |
- Based on this information, find the output of the following queries:
- (a) `SELECT CoachName FROM CLUB WHERE CoachName LIKE '%a%';`
- (b) `SELECT CoachName FROM CLUB WHERE CoachName LIKE 'a%';`
- (g) A table book in a database has 5 columns and no rows in it. What is its degree? 2  
What will be its degree if 3 rows are added in the table?

- 4 (a) Given an int variable K with value 102. It is to be converted into equivalent string i.e “102”.  
What are the two ways of doing that? 2
- (b) What will be the content of jTextArea1 after executing the following statement :  
`jTextArea1.setText(" java is \n wonderful programming \t language ");` 2
- (c ) Rewrite the following program code using a Switch statement:  

```

if (code ==1)
 Month = "January";
else if (code ==2)
 Month = "February";
else if (code==3)
 Month = "March";
else if (code==4)
 Month = "April";
else
 Month = "No Match";

```
- (d) Define the term “Fall Through”. Explain with an example. 2
- (e) What will be the contents of JTextField1 and JTextField2 after executing the following code  
`jTextField1.setText(Math.round(2.5)+""); jTextField2.setText("Micro".concat("System"));` 1
- (f) A cloth show room has announced the following festival discount on the purchase of items based on the total cost of the item purchased.

Enter total cost of the cloth Rs.

Amount after discount :

| Total Cost     | Discount (in percentage) |
|----------------|--------------------------|
| Less than 2000 | 5%                       |
| 2001 to 5000   | 25%                      |
| 5001-10000     | 35%                      |
| Above 10000    | 50%                      |

|   |                                                                                                                                                                                             |   |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|   | (a) Write a Java code to calculate the discount based on the above criteria.                                                                                                                | 2 |
|   | (b) Write a Java code to Disable the discount Text Field.                                                                                                                                   | 1 |
|   | (c) Write a Java code to close the application when you click the Exit button.                                                                                                              | 1 |
|   | (d) Write a Java code to enter only positive value in Amount Text Field. If the user enters the negative value display an error message through the Dialog window and clear the text field. | 2 |
| 5 | (a) Write the output of the following SQL queries.                                                                                                                                          | 1 |
|   | 1. SELECT CONCAT(LOWER('Class'), UPPER('xii'));                                                                                                                                             |   |
|   | 2. SELECT ROUND(245.678,2);                                                                                                                                                                 |   |
|   | 3. SELECT DAYOFYEAR('2010-02-16');                                                                                                                                                          |   |
|   | 4. SELECT MOD(11,4);                                                                                                                                                                        |   |
|   | (b) How Update command is different from Alter command? Explain with an example.                                                                                                            | 2 |
|   | (c) Write a MySql command to display all the table names from EMP database.                                                                                                                 | 1 |
|   | (d) Write MySQL commands for (a) to (d) and write the output of (e) on the basis of table Employee:                                                                                         | 6 |

**Table: Employee**

| No. | Name    | Salary | Area  | Age | Grade | Dept  |
|-----|---------|--------|-------|-----|-------|-------|
| 1   | Keshar  | 40000  | West  | 45  | C     | Civil |
| 2   | Kirti   | 35000  | South | 38  | A     | Elec  |
| 3   | Kripple | 60000  | North | 52  | B     | Civil |
| 4   | Aryan   | 38000  | North | 29  | B     | Civil |
| 5   | Samsons | 42000  | East  | 35  | A     | Comp  |
| 6   | Biswal  | 29000  | South | 34  | A     | Mech  |

- a) To display the name of all employees who are in the area south.
- b) To display name and age of all employees having age >40.
- c) To display list of all employees whose salary  $\geq 30,000$  and  $\leq 40,000$ .
- d) To display the employee name whose name start with K
- e) Write the **output** of the following commands based on the given table “Employee”.
  - i. Select sum(Salary)from employee where Grade= “A”;
  - ii. Select count(Distinct DEPT)from employee;

6 (a) What is the use of AutoCommit in MySql? How will you switch off the Auto commit in MySql? 2

(b) Write the SQL command to create a table Sports with the following structure: 2

TABLE : SPORTS

| FIELD   | DATATYPE(size) | CONSTRAINTS |
|---------|----------------|-------------|
| Sno     | Integer(3)     | Primary key |
| Name    | Varchar(20)    | NotNull     |
| Age     | Integer(2)     |             |
| Address | Varchar(30)    |             |
| City    | Varchar(10)    |             |

(c) In a database there are two tables “ITEM”, and “Customer” as shown below: 6

ITEM

| P_ID  | ProductName    | Manufacturer | Price |
|-------|----------------|--------------|-------|
| 1001  | Moisturizer    | XYZ          | 40    |
| 1002  | Sanitizer      | LAC          | 35    |
| 1003  | Bath Soap      | COP          | 25    |
| 1004  | Shampoo        | TAP          | 95    |
| 1005` | Leans Salution | COP          | 350   |

CUSTOMER

| C_ID | ClientName   | City      | P_ID |
|------|--------------|-----------|------|
| 01   | Samridh Ltd  | New Delhi | 1002 |
| 05   | Big Line     | Mumbai    | 1005 |
| 12   | SIS tech Ltd | New Delhi | 1001 |
| 15   | Tom n Jerry  | Bangalore | 1003 |

Write the commands in SQL for the following:

- i. To display the details of items whose price is in the range of 70 and 95.
- ii. To display the Clientname, City from Customer and Item name and price from table Item, with their corresponding matching ID
- iii. To Increase the price of all the products by 10

7 (a) What control will you suggest for the following:

2

| S.No | Control used to           | Control |
|------|---------------------------|---------|
| 1    | A mouse click             |         |
| 2    | Typed text(Multiple line) |         |
| 3    | Choose gender(M/F)        |         |
| 4    | Submit the form           |         |

(b) How has our society benefited from e-commerce? Mention any two points?

2

(c) Write any two e-Governance web site names.

1

**End of the Question Paper**