



INDIAN SCHOOL MUSCAT

SECOND PRELIMINARY EXAMINATION

INFORMATICS PRACTICES (065)

C : XII

D : 13.02.2019

Marks : 70

Time : 3 hrs

G : General Instructions:

All the Questions are Compulsory

Read the Question carefully before writing the answer

1. Which Protocol is used to transferring files to and from a remote host? 1
 Write any two physical media used for data transmission in a network system. 1
 Write the Full Form of the following: 1
 (i) MODEM (ii) MAC 1
 Mention any two advantages of open standards. 1
 Mr. Ram Kumar is confused between ROUTER Address and GATEWAY. Explain him about ROUTER and GATEWAY. 2
 Define Topology. Write any two disadvantages of Star Topology. 2
 Define the following: 2
 (i) PYTHON (ii) MOZILA 2
2. Name any four attributes of BODY tag in HTML. 1
 What are top level containers? Give any one example. 1
 Which three tags in HTML let you create the definition lists? 1
 Define Inheritance. Write a name of the inheritance which is not supported by java. 1
 Write a Java code that takes an Integer from jTextField1 and prints the accepted number is PERFECT NUMBER or NOT in jLabel1 with the use of for loop. 2
 How Check Box is different from Radio Button? Write any one method of each. 2

- (g) What will be value of x and y after execution of the following code: 2
- ```
int x;
int y=10;
for(x=10 ; x>=1;x-=2)
{
y+=x;
jTextArea1.append("x =" +x +"\n" + "y =" +y);
}
```
- (OR) Convert the above code to do... while loop.
3. (a) Kumar, a student of class XI created a table "STUDENT". Class\_sec is one of the columns of this table. To delete the column class and section he wrote the following query : 1
- Alter student delete class\_sec;**
- Help Kumar to run the query by removing the errors from the query and rewriting it.
- (b) A numeric data field MARK contains 96.74. Write a command to round off MARK to: 1
- (i) Whole Number (ii) Up to 1 decimal place
- (c) Mr. Hari Create two tables with DeptNo as primary key in Employee table and Foreign Key in Department Table. While inserting a new row in Dept table, Mr. Hari is not able to enter a new value in the column DeptNo. What could be the reason for it? 1
- (d) How ORDER BY Clause is different from GROUP BY Clause in MySql? 1
- (e) Mr. Raghu is confused about SUBSTR( ) and INSTR( ) functions in MySql. Explain What is the difference between these two functions with an example 2
- (f) Define Data Model. Name the various data models available for database system. 2
- (g) What are the different techniques available to join tables in MySql? 2
4. (a) Rewrite the following program code using for statement: 2
- ```
int p=5, sum=0;
do
{
sum=sum+p;
p+=2;
} while(p<=12);
jTextField1.setText(Integer.toString(sum));
```
- (b) Given a string object namely total, having value as "6789" stored in it. What will be the result of the following: 2
- JOptionPane.showMessageDialog(null, total+Integer.parseInt(total));**
- (c) What is the significance of a button group? 1
- (d) Which are all the data types supports while using switch. Case? 1
- (e) What is a combo box? What method obtains the current selection of a combo box? 2

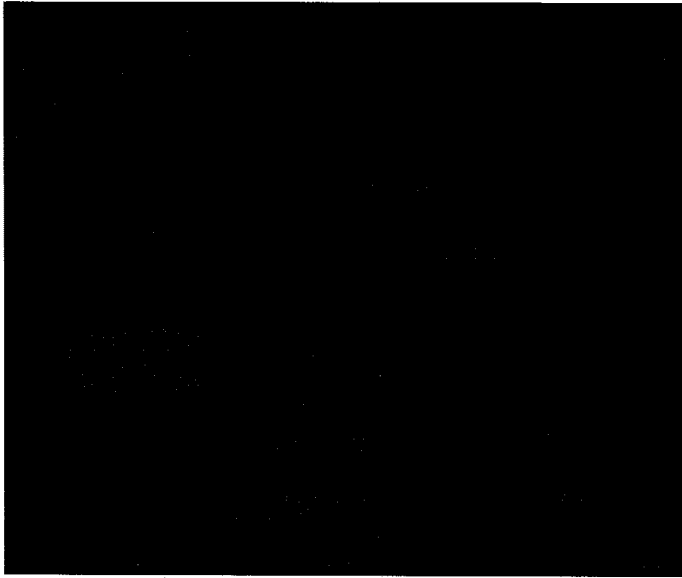
- (f) What will be the content of JLabel1 after executing the following code:

```
int a=1;
int b=2;
do{
b=b*a;
a=a+2;
System.out.println("b= "+b);
}while(a<=10);
```

(OR)

convert the above code to for loop.

- (g) Mr. Sanjay is a programmer in M&M Fashions. He created the GUI in Netbeans.



The Store accepts payments in 3 modes- Cheque, cash and credit cards. The discount given as per mode of payment is as follows.

Mode of Payment	Discount
Cash	11%
Cheque	9%
Credit Card	5%

If the customer is a special customer and the Bill Amount is more than 12000 then the customer gets an additional discount 5% on Bill Amount.

- (i) Write the code to make the text fields Discount (jTextField3) and Net amount (jTextField4) uneditable.

(ii) When "Calc Discount" Button is clicked the discount button the discount should be calculated as per the given criteria and it should be displayed in the Discount TextField(jTextField3).

(iii) When "Calc Net " button is clicked the net amount should be calculated and it should be displayed in the net amount textfield(jTextField4).

- 5 (a) What is NULL value in MySql? What will happen if you use NULL in arithmetic expression?
(OR)
HOW DDL commands are different from DML? Write any one valid point of each. 1
- (b) Murali is not clear about the difference between the following two statements:
(i) Select count(distinct(deptno)) from emp;
(ii) Select count(deptno) from emp; 2
Help him understand the difference between the these two statements.
- (c) Consider the following table named as “Teacher” with details. Write Mysql command for(i) to (iv) and output for(v) to (vii).

Table : Teacher

Tno	T_name	Department	Basic	Allowances
T16	Rakesh Sharma	Physics	27200	1500
T11	Vivek Rawat	Chemistry	34500	1200
T13	Dinesh Goel	Computer	30600	1300
T14	Lokesh Rathore	Commerce	44200	
T15	Lakshmi	Physics	43800	2000
T18	Ramkrishana	Commerce	24500	2500
T17	Suresh Kumar	Chemistry	32300	1900
T10	Raj Mohan	Computer	41700	1600

- (i) To display all the teachers name and their total salary (Basic+ Allowances) whose name not ends with the character ‘a’.
- (ii) Add a new column DEDUCTIONS with integer size of 4.
- (iii) To increase the basic salary by 30000 those who are all in Physics department.
- (iv) To display all the teachers name whose BASIC is not in the range.25000 to 40000.
- (v) Select department, count(*) from teacher group by department;
- (vi) Select T_name , Basic from teacher where basic<30000;
- (vii) Select Sum(basic),Max(allowances) from Teacher;

- 6 (a) Write a MySql command to create a table 'SPORTS'

Column Name	Data Type(size)	Constraint
Game_Id	Integer(4)	Primary Key
Game_Name	Varchar(20)	Unique Key
Game_Type	Varchar(10)	Not Null
Prize_Money	Decimal(7,2)	

- (b) Consider the tables HANDSET and DEALERS

Handset

SetCode	Setname	OS	Cost
M3423	Micromax canvasXL	Android	31000
M3456	Micromax canvas Beat	Android	9870
N1212	Nokia Lumia 929	Windows	28000
S1234	Samsung Galaxy 4	Android	34000

Dealers

Deal_no	SetCode	City
D43	S1234	Mumbai
D56	M3423	Delhi
D12	S1234	Chennai
D37	N1212	Chennai
D32	N1212	Bangalore

- (i) To Display set name, operating system from HANDSET table and the corresponding Dealer Number and city from Dealers Table.
- (ii) To display how many handsets are there in each operating system.
- (iii) To display the dealer details for each dealer who are all selling windows handsets.

- (c) What is the use of IN operator in MySql? Give an example.

- (d) Find the output of the following:

- (i) Select truncate(5678.56,-1)+truncate(3320.45,0);
- (ii) Select left("India is our country",length("Tiger"));

- 7 (a) Define e-Learning. Write any two popular e-Learning websites.

- (b) How has e-Governance benefited the common man and write any two e-Governance projects in India.

- (c) Mr. Das is working as System Developer in SS Enterprises. Help him to choose most appropriate controls from List Box, Combo Box, Text Field, Text Area, Radio Button, Check Box, Label and Command Button for the following entries:

SNo	Function
1	To Enter the Name
2	Select the gender
3	Select the department
4	Select any number of facilities

End of the Question Paper



INDIAN SCHOOL MUSCAT

SECOND PRELIMINARY EXAMINATION

INFORMATICS PRACTICES 065

Class : XII

Date : 13.02.2019

Marks : 70

Time : 3 hrs

General Instructions:

1. All the Questions are Compulsory
 2. Read the Question carefully before writing the answer
1. (a) Mention any two advantages of open standards. 1
 - (b) Write the Full Form of the following: 1
 - (i) MODEM
 - (ii) MAC
 - (c) Write any two physical media used for data transmission in a network system. 1
 - (d) Which Protocol is used to transferring files to and from a remote host? 1
 - (e) Mr. Ram Kumar is confused between ROUTER Address and GATEWAY. Explain him about ROUTER and GATEWAY. 2
 - (f) Define Topology. Write any two disadvantages of Star Topology. 2
 - (g) Define the following: 2
 - (i) PYTHON
 - (ii) MOZILA
 2. (a) Define Inheritance. Write a name of the inheritance which is not supported by java. 1
 - (b) Which three tags in HTML let you create the definition lists? 1
 - (c) What are top level containers? Give any one example. 1
 - (d) Name any four attributes of BODY tag in HTML. 1
 - (e) How Check Box is different from Radio Button? Write any one method of each. 2
 - (f) Write a Java code that takes an Integer from jTextField1 and prints the accepted number is PERFECT NUMBER or NOT in jLabel1 with the use of for loop. 2

- (g) What will be value of x and y after execution of the following code: 2
- ```

int x;
int y=10;
for(x=10 ; x>=1;x-=2)
{
y+=x;
jTextArea1.append("x =" +x +"\n" + "y =" +y);
}

```
- (OR) Convert the above code to do... while loop.
3. (a) What are the different techniques available to join tables in MySQL? 2
- (b) Define Data Model. Name the various data models available for database system. 2
- (c) Mr.Raghu is confused about SUBSTR( ) and INSTR( ) functions in MySQL. Explain What is the difference between these two functions with an example 2
- (d) How ORDER BY Clause is different from GROUP BY Clause in MySQL? 1
- (e) Mr.Hari Create two tables with DeptNo as primary key in Employee table and Foreign Key in Department Table. While inserting a new row in Dept table, Mr. Hari is not able to enter a new value in the column DeptNo. What could be the reason for it?. 1
- (f) A numeric data field MARK contains 96.74. Write a command to round off MARK to: 1
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- (g) Kumar, a student of class XI created a table "STUDENT". Class\_sec is one of the columns of this table. To delete the column class and section he wrote the following query : 1
- Alter student delete class\_sec;**
- Help Kumar to run the query by removing the errors from the query and rewriting it.
4. (a) Given a string object namely total, having value as "6789" stored in it. What will be the result of the following: 2
- JOptionPane.showMessageDialog(null, total+Integer.parseInt(total));**
- (b) What is a combo box? What method obtains the current selection of a combo box? 2
- (c) Rewrite the following program code using for statement: 2
- ```

int p=5, sum=0;
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- (d) Which are all the data types supports while using switch. Case? 1
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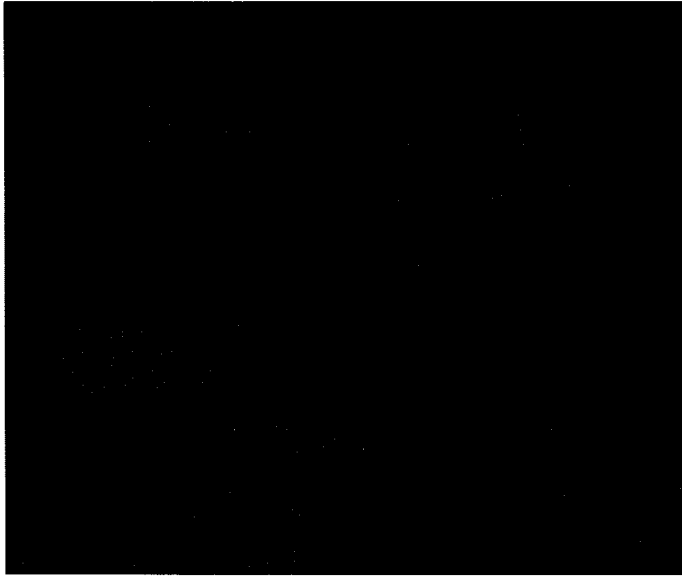
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displayed in the net amount textfield(jTextField4).

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(i) Select count(distinct(deptno)) from emp;

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Help him understand the difference between the these two statements.

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HOW DDL commands are different from DML? Write any one valid point of each.

(c) Consider the following table named as "Teacher" with details. Write Mysql command for(i) to (iv) and output for(v) to (vii).

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(iv) To display all the teachers name whose BASIC is not in the range.25000 to 40000.

(v) Select department, count(*) from teacher group by department;

(vi) Select T_name , Basic from teacher where basic<30000;

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- (i) To Display set name, operating system from HANDSET table and the corresponding Dealer Number and city from Dealers Table.
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- (c) Find the output of the following:

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SNo	Function
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End of the Question Paper

Roll Number		
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SET C



INDIAN SCHOOL MUSCAT SECOND PRELIMINARY EXAMINATION INFORMATICS PRACTICES (065)

Class : XII

Date : 13.02.2019

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General Instructions:

1. All the Questions are Compulsory
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 - (e) Mr. Ram Kumar is confused between ROUTER Address and GATEWAY. Explain him about ROUTER and GATEWAY. 2
 - (f) Define the following: 2
 - (i) PYTHON
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 - (g) Define Topology. Write any two disadvantages of Star Topology. 2
 2. (a) How Check Box is different from Radio Button? Write any one method of each. 2
 - (b) Write a Java code that takes an Integer from jTextField1 and prints the accepted number is PERFECT NUMBER or NOT in jLabel1 with the use of for loop. 2
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(OR) Convert the above code to do... while loop.

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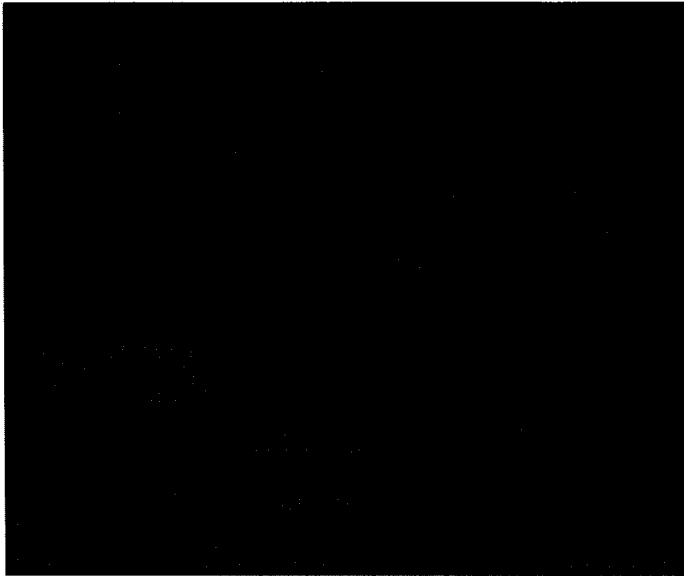
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