

INTERNATIONAL INDIAN SCHOOL, DAMMAM
First Term Examination – 2017
Informatics Practices – Class XII

Time: 3 Hrs
Marks: 70

Q1.

- a) What is the significance of in and nic in the following ? (1)
cbse.nic.in
- b) A Company MicroData enterprises has various buildings in a city. Company wants to get IP address using URL of website. How can this be achieved? (1)
- c) What is the importance of UNICODE? (1)
- d) What are the similarities and differences between bus and tree topology? (1)
- e) Name the major forms of intrusion problems. (1)
- f) Define the following (2)
i) GSM ii) Voice mail
- g) What is meant by Cookies , CDMA ? (2)
- h) Mr. Amit is working in an global organization. He wants to send his home's computer files to his office's computer. .Suggest the protocol for the same. (1)

Q2. a) "The variable /expression in the switch statement should either evaluate to an integer value or string value". State the comment (1)

- b) What will be displayed in jTextField1 and jTextField2 in the following code ? (2)

```
int ndigits=0;
int N= 35;
while( N>12)
{ ndigits=ndigits+1;
  N=N / 2;
}
```

```
jTextField1.setText(Integer.toString(ndigits));
jTextField2.setText(Integer.toString( N));
```

- c) Write a java statement to append a string " Welcome" to the text that is already in the text area named jTextField1. (1)
- d) Rewrite the corrected code after removing the errors(Underline corrections made) (2)

```
Int sum , value ; inct ;
sum = 0; inct=0;
for ( int i = 0 ; i <= 10 ; i ++ )
{ Sum = sum+ inct;
  inct + +;
System.out.println( " sum= "+sum);
```

- e) What will be the contents of the variables msg3,msg4 after executing the following code

```
String msg1="Internet" , msg2="Applications",msg3,msg4 ;
msg3= msg1.substring(2,3) ;
msg4 = msg2.substring ( 2 );
```

 (2)

- f) Write a java statement to make a jTextField1 appear on the form (1)

g) A person is creating a simple application in java in which he needs to convert the characters input by the user in a textfield jTextField1 in a particular case. Write the statement for it . (1)

h) What will be the values of x and y after executing the following expressions: (1)

```
int y = - 1;  
System.out.println("x : " +(- y - - ));  
System.out.println("y : " + y);
```

i) Mention the features of OOP. Give example of OOP. (2)

Q3.a) Differentiate between the following clause
IN , BETWEEN (1)

b) The 'C Id' and 'Category' columns of a table Employee are given below : (2)

C ID	Category
101	CLERK
102	CASHIER
103	MANAGER
104	SALESMAN

Based on this information find the output of the following queries :

- SELECT mid (category , 2, 3) from Employee where category not like "%ER_";
- SELECT instr (category , 'NA') from Employee where C_ID > 102;

c) An attribute A of datatype varchar(20) has the value "Amit" . The attribute B of datatype char(20) has value "Karanita". How many characters are occupied in attribute A? How many characters are occupied in attribute B ? State the reasons. (2)

d) Mr. Kamal has created a table – Employee which contains following fields in it
Empno, Empname , DateofJoin
Help him (2)

- To display the first three and last four characters of employee's name
- To view the column's name with its constraints

e) Write the output of the following (2)

- Select round(125.60, -1);
- Select length(mid ('MySQL and Java in class XII', 6));

f) Ankita wants to list the names of all the tables in her database namely Status. What commands(s) should she write at MySQL prompt to get this result. (1)

Q4.a) Write a short note on Operator overloading and method Overloading with examples. (2)

b) Will the following code execute successfully ? State the reasons. (2)

```
int k = 2 , sum = 0 ; / Declaring k and sum as integer  
do  
    sum = k;  
    k += 2;  
} while ( k < 20 )  
jTextField1.setText( integer.toString(sum));
```

- e) Name any one native class of java and one method of it. (1)
- d) Mr. Kant has developed a java application for a school, in which a list box made on the form for selecting the class. Name the property which Mr. Kant should use to add the name of class in list box. (1)
- e) What controls would you suggest for the following (1)
- i) To enter nationality from all the nationalities given as options.
 - ii) A message in front of a text field.
- f) Define inheritance .Give advantage of it. (2)
- g) What is the significance of access specifiers ? (1)
- h) Write an appropriate Java statement to transfer the content from a string variable strPassword to integer variable intPassword.(strPassword and intPassword are used to store 5 digit password created by a user in his application). (2)

Q5. Read the following case study and answer the questions that follows:

Naveen electronics has the following products with their list prices given. The store gives a 10% discount on every product. However, at the time of festival seasons, the store gives a further 7% festival discount after 10%.

PRODUCT NAME	LIST PRICE	DISCOUNT PRICE
Washing Machine	12000	
Coior Television	17000	
Refrigerator	18000	
OTG	8000	
CD Player	1450	

The screenshot shows a Java application window titled "Naveen Electronics" with a "Customer Discount" dialog box. The dialog box contains the following elements:

- Product Name:** A dropdown menu currently showing "Washing Machine".
- Choose a Type:** A section with two radio buttons: "Festival" and "Non-Festival".
- Input Fields:** Three rows of labels and text boxes:
 - Label: "List Price", Text box: "List price"
 - Label: "Discount Price", Text box: "Discount"
 - Label: "Net Price", Text box: "Net price"
- Exit Button:** A button labeled "Exit" at the bottom center.

Control	Property Name	Property Value
JFrame	Title	Naveen Electronics
TextField1	Variable Name	txtPrice
TextField2	Variable Name	txtDiscount
TextField3	Variable Name	txtNPrice
JComboBox	Variable Name	cmbProduct
JRadioButton1	Text	Festival
	Variable Name	OptFest
JRadioButton2	Text	Non-Festival
	Variable Name	OptNFest

a) Write the code to assign as 0 to all the text fields and set the default choice for Non Festival. (1)

b) Write the code to display the listprice, discountprice and netprice in their respective text boxes. (3)

c) Write the code to change the text of exit button as "Close" (1)

Q6.a) Define the uses of Commit, Rollback and savepoint in SQL with example. (2).

b) Raj is not able to execute the following sql query, help him to execute it (1)
 Select * from Country where City = (Delhi ,Mumbai, Agra)

c) Consider the following table and answer the questions below (6)

Table: Customer

Cid	CName	TrnsDate	Balance	MobileNo	TrnsTime
C417	A.B.Gupta	2014-04-12	200000	9837711231	10 am
C324	V.R.Vaish	2014-11-10	450000	9834561212	9 am
C247	A.M.Kumar	2014-08-09	356789	9835678942	12 pm
C552	R.H.Prasad	2014-01-02	234561	9836784532	10 am

i) Mention the datatype of CName and TrnsDate.

ii) Write the SQL command to get Customer name , MobileNo of all those customers whose transaction date is after 2 March 2011.

iii) Suggest the candidate key for the above table.

iv) Write the output of following statement

Select Right (CName, 5) from Customer where Cid Like "%7";

v) What is the purpose of the following

Select concat (Cid,CName) from Customer where Cid ='C417';

vi) Write the SQL command to display the name of those customers whose balance is in the range of 250000 and 350000

Q7.a) In a Database GYM , there is a table with a sample data given below

Table : FITNESS

PCode	PName	PPrice	PManufacturer
P1	Treadmill	21000	Coscore
P2	Bike	20000	Aone
P3	Massage chair	5500	Regrosene
P4	Cross Trainer	14000	Reliable
P5	Multi Gym	34000	Coscore

Answer the questions given below

- i) Suggest the primary key of the above table with a suitable reason. (1)
- ii) Mr. James created the above table . He added 2 more rows to it and deleted one field
What is the degree and Cardinality of the above table (1)
- iii) Write the Sql commands for the following
a) To display the number of products for each manufacturer whose product price is more than 20000. (2)
b) To create the above table with appropriate datatype (2)
c) To make the price by applying a 25% discount reduction of all the products by the manufacturer "Aone" (2)
- b) i) What is the difference between Drop table and Alter Table? (1)
- ii) Can we give String and Date type arguments for SUM() and AVG() functions? Define. (1)
- iii) What is meant by % and _ ? (1)