

INTERNATIONAL INDIAN SCHOOL DAMMAM

SECOND TERM EXAMINATION , NOV-2017

SUBJECT :INFORMATICS PRACTICES

TIME : 3 HRS

CLASS: XI

MAX MARKS : 70

SET A

General Instructions:

1. This question paper consists of 6 questions.
 2. All the questions are compulsory.
 3. Marks are indicted against each question.
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1. (a) _____ is the first virus deducted on APRANET . (1)
(b) How does firewall works ? (1)
(c) Differentiate between a virus and a worm. (2)
(d) Expand and explain CIA . (1)
(e) _____ is an invisible component that is necessary to associate all radio button . (1)
(f) What is the difference between + + a and a + + ? (1)
(g) Define GUI. (2)
(h) The _____ operator select value that match any value in the given list of values. (1)
2. (a) Explain the usage of the following method. (2)
(i) toString() (ii) concat()
(b) Write a Java code that accepts the length in kilometers in jTextField1 and convert it into meters.
On the click of calculate button.Display the result in jTextField2. (2)
(c) What is the main difference between a while loop and do while loop ? (1)
Explain with an example.
(d) What will be displayed in jTextField1 after the following statement. (1)

JTextArea1.setText(“ Winners \n Never \t Quit “)

(e) Rewrite the following code using for . (2)

```
int i , sum = 0 ;
i = 1 ;
while ( i <= 10 )
{
    sum = sum + i ;
    i += 3 ;
}
System.out.println(sum);
```

(f) What is the difference between (t=2) and (t == 2) in Java ? (1)

(g) Give the value of x after executing the following Java code. (2)

```
int a = 10,b = 12;
int x = 5 , y = 6;
while ( a <= b)
{
    if ( a % 2 == 0)
        x = x + y;
    else
        x = y - x;
    a++;
}
System.out.println( x );
```

(h) How many times the following loop execute ? (1)

```
int a = 10 , sum = 0;
while ( ++ a < 15)
{
    sum += a;
    System.out.println( a++);
}
```

3. (a) Mr.Shaji creates a table named Gym with column names CustomerId ,CusName , Gender, DateofJoining. Help him to write a suitable MySQL command. (1)

(b) What are the two categories of SQL commands ? Give two example of each commands. (2)

(c) Aruna has created a table "HEALTH" with 9 records and 5 columns.

What is the degree and cardinality of the table ? (1)

(d) Expand SQL. (1)

(e) Explain the term Clause with a suitable example ? (2)

(f) The **Name** and **Department** column of a table “ **HOSPITAL** “ is given below.

Name	Department
Kareem	Surgery
Ankitha Sen	ENT
Arun	Orthopaedic
Zareen	Cardiology

Based on the above information , Find the output of the following queries.

1. SELECT Name FROM HOSPITAL WHERE Name NOT LIKE “ % n ” .
2. SELECT Department FROM HOSPITAL WHERE Department LIKE “ C % y ” . (2)

(g) What are Relational Operators? Give two examples . (2)

(h) What is the result of the following MySQL code.

1. SELECT TRUNCATE (122 , - 2)
2. SELECT ROUND (72.826 , 0) (2)

(i) Ms.Geetha wants to display StudName from table GRADE and change the column name mark to SMark. Write the appropriate SQL command to achieve this. (2)

(j) Define the term alternate key. (1)

4. (a) Write the appropriate controls for the following. (2)

1. To Enter comments.
2. To Submit the Form.
3. To select the countries from a list .
4. To choose type of trip (One way or Two way).

(b) What is the use of Iteration statement ? (2)

(c) Write a java statement for the following.

If the age entered in JTF1 is greater than 18 then message “ You are Eligible “ (1)

(d) What will be the value of a and b after executing the following code.

```
String a , b ;  
a = “Incorrect”;  
b = “Password”;  
b = b.concat(a);
```

 (1)

(e) In a Java program , Prem wants to extract selected item from a given listbox name ”jList” .

Help him write the statement. (1)

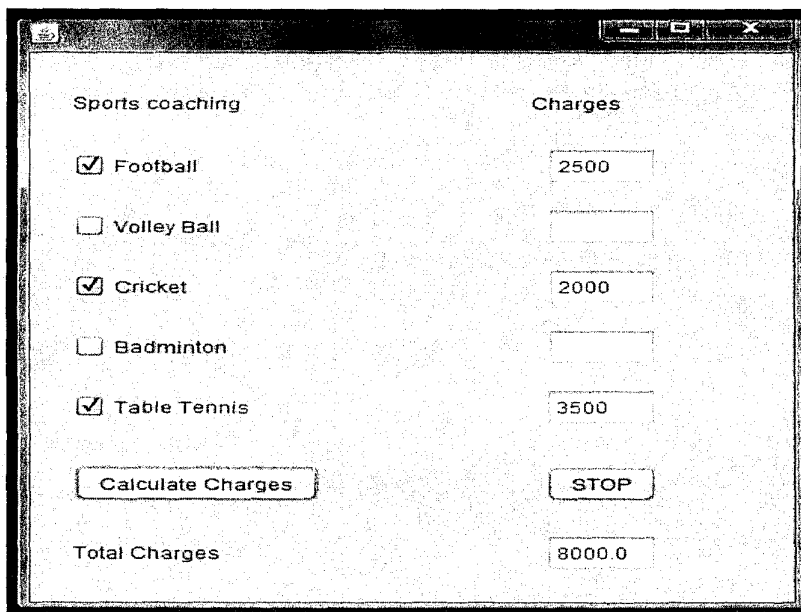
(f) Rewrite the following code after removing the error (if any). Underline the corrections. (2)

```
int p == 5 , q = 10 ;  
do  
p = p+ 5  
System.out.println(p) ;  
} while p < q
```

(g) Write the equivalent switch case for the following code: (2)

```
if( ch == 'Y')  
{  
    opt = opt - 10;  
    System.out.println(opt);  
} else  
if ( ch == 'y' )  
{  
    opt += 10;  
    System.out.println(opt);  
}  
else  
    System.out.println(" Back to Home button");
```

(h) Design GUI application to develop a Sports Charges application to calculate the Total charges payable by the user based on the sports selected.



Write the Java code for the following

- (1) To display the charges of each sports in the adjacent text fields(Foot Ball (FbTF), Volley Ball (VbTF) , Cricket (CrTF) , Badminton (BdTF) Table Tennis (TtTF)) on the selection of particular sport.
[Charges in Rupees of each sports Foot Ball = 2500 , Volley Ball = 1500 , Cricket = 2000 ,Badminton = 3000 , Table tennis = 3500] (1)
- (2) To Compute and print the total charges of all the selected sports in the text field(TotTF) when Calculate charges (cmdCal) button is pressed. (3)
- (3) To stop execution and exit the application on the click of Exit button (cmdExit). (1)

5. (a) What is the purpose of ORDER BY clause. (1)

(b) What is the output of the following SELECT statement ?

```
SELECT IName ,ICredit AS " Credit Amount" FROM INVENTORY;
```

 (1)

(c) Kiran created a table " PRODUCT" . CusID , Quantity , Date_purchase are the Columns of the table PRODUCT.To make the query output more presentable he inserted the text " has purchased " as a new column to it by writing the following SQL statement.

Select CusId,Quantiy,"has purchased",Date_purchase from product ;

Help her to run the queries by removing the errors and rewriting it. (1)

(d) What is the use of IN operator in MySQL ? (2)

(e) Name the keyword used to remove the redundant data from a table. (1)

(f) Differentiate between Radio button and Check Box. (1)

(g) Define Single row function.Mention its categories. (1)

6.(a) Write the SQL command for (1) to (7) and write the output of (8) on the basis of the table COMPUTER.

Table :COMPUTER

PNO	PNAME	PRICE	SUPPLIER	STOCK
P1	Motherboard	7000	Intel	20
P2	Keyboard	1000	TVSE	70
P3	Mouse	500	Logitech	60
P4	Soundcard	600	SAMSUNG	50
P5	Speaker	600	SAMSUNG	25
P6	Monitor	3000	Philips	22
P7	CD_ROM	2800	Creative	32
P8	Printer	7900	HP	10

- (1) Display data for the entire item sorted by their PName. (1)
 - (2) Display the PName and Price from the table item in descending order of their stock. (1)
 - (3) List PName ,PNO for all the products whose Price is > 1000. (1)
 - (4) List all PName and Price with Price between 3000 and 7000. (1)
 - (5) Display PName for all the products that have no supplier. (1)
 - (6) To set Price field of products to 1200 corresponding to PName = "Keyboard" . (1)
 - (7) To delete rows with stock between 20 to 40. (1)
 - (8). Write the output for the following query. (1)
- SELECT PNO , PName , 50*Price FROM COMPUTER WHERE PName = ' Speaker';
