

INTERNATIONAL INDIAN SCHOOL, DAMMAM
MODEL EXAMINATION – 2013 - 2014
INFORMATICS PRACTICES

STD: XI
SUB: Informatics Practices

Time: 3 Hrs
Marks: 70

SET - A

General Instructions:

- (i) All questions are compulsory.
 - (ii) Marks are indicated against each question.
 - (iii) Programming must be done in Java
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1. a) Differentiate between Compiler and Interpreter. 2
b) What do you mean Output Device? Give one example. 1
c) A group of 4 bits is called a _____. 1
d) Define Inventory Management System with an example. 2
e) What is cookies? 1
f) Define Secondary Memory Unit with 2 examples. 2
g) Name the Cyber Act in India. 1

2. a) What is entry-controlled loop? Which loop is entry-controlled loop. 2
b) Differentiate between: 2
 (i) TextField and TextArea components.
 (ii) RadioButton and CheckBox.
c) What is alternate key? 1
d) Differentiate between Syntax error and logical error with examples. 2

3. a) The following code has some error(s). Rewrite the correct code and underline all the corrections made: 2

```
int k = 2; sum = 0; //Declaring k and sum as Integer
{
    sum = k;
    k += 3;
}
while (k=<20);
jTextField1(Integer.toString(sum));
```


b) How many times does the following while loop get executed? 1

```
int k = 5;
int L = 36;
while (k <= L)
{
    k += 6;
}
```



c) What will be the output of the following program code: 2

```
int A = 5, B = 10;
for (int i = 1; i <= 2; i++) {
System.out.println("Line1 =" + A++ + "&" + B--);
System.out.println("Line2 =" + ++B + "&" + (A+3));
}
```

d) Rewrite the following program code using a if statement. 2

```
int C = jComboBox1.getSelectedIndex();
switch (C )
{
    case 0 : Amount = Bill; break;
    case 1 : Amount = 0.9 * Bill; break;
    case 2 : Amount = 0.8 * Bill; break;
    default : Amount = Bill;
}
```

4. a) Which method is used to change the display text of a textfield during run time? 1

b) Expand: 1

(i) IDE

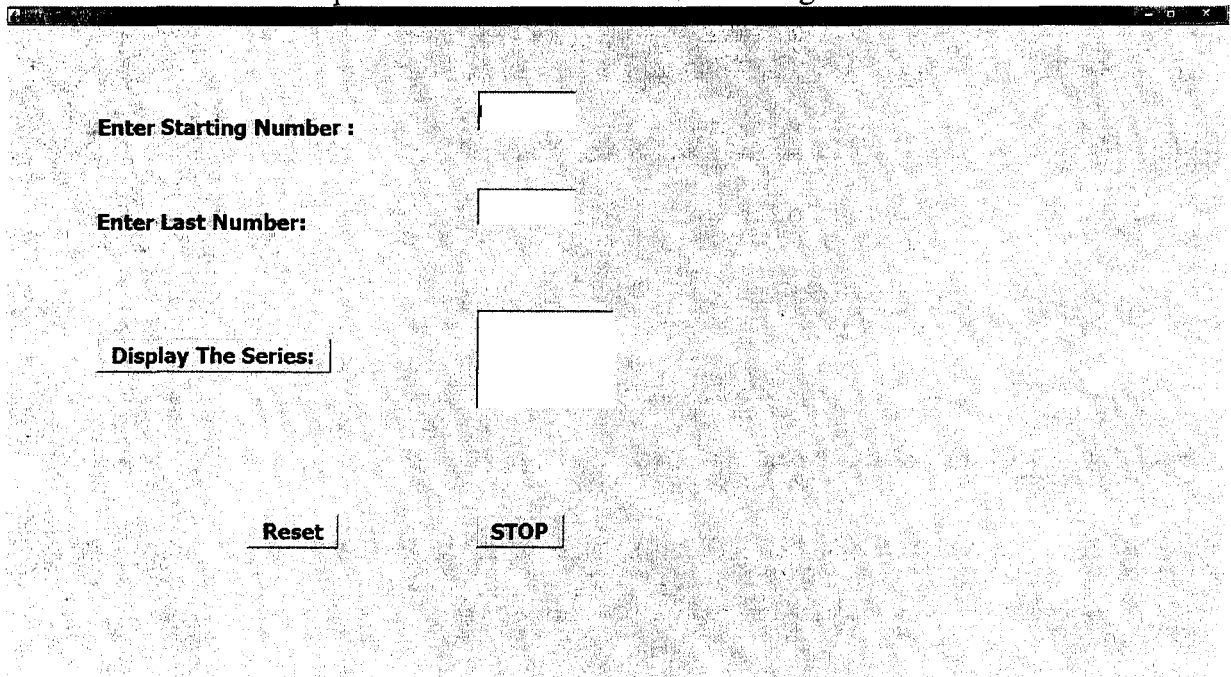
(ii) GUI

c) Differentiate between Design and Source tabs. 1

d) In Java, the variable names 'Hi5' and 'hi5' are same? Justify your answer. 1

e) What is the main difference between Combo Box and list box? Illustrate with example. 2

5. Janav Raj is a programmer at Path Educo Enterprises. He created the following GUI in NetBeans. Help him to write code for the following:



- (i) To display series of odd or even numbers (depending on starting number – **jTextField1** is even or odd) in the **jTextArea** on the click of command button [Display The Series]. 2
- For example:
 If the Start Number is 5 and Last Number is 11
 Text Area content will be
 5 7 9 11
 If the Start Number is 2 and Last Number is 10
 Text Area content will be
 2 4 6 8 10
- (ii) To clear both the text fields and text area, on clicking [Reset] button. 2
- (iii) To terminate the application on the click of [Stop] button. 1
 (Assume suitable names for the various controls on the Form)
6. a) Define Primary Key with example. 2
 b) What is the purpose of ALTER TABLE command in MySQL? How is it different from UPDATE command? 2
 c) What is meant by cardinality of a table? Give an example. 2
 d) Define DDL commands with examples. 2
 e) Define Single row functions with examples. 2
 f) What do you mean by 'statement'? 1
- 7.
- a) Ms. Sneha is working in a software company. She works under MySQL database. She forgot to know the tables which she worked in last week. What MySQL statement she should use to know the tables?. 1
- b) A table "Vehicle" in a database has degree 4 and cardinality 7. What is the number of rows and columns in it? 1
- c) A numeric data field CNT contains 35675.8765. Write a command to round off CNT to 2
 (i) Whole number
 (ii) Upto 3 decimal places.
- d) Name the commands for the following: 2
 (i) To create the table.
 (ii) To change the structure of the table.
- e) Write SQL statements for the following:
 (i) Using the string "Classroom discipline" and extract the string "disc". 1
 (ii) Display the length of the string "India is my country". 1
 (iii) Display current date. 1

8. Write the SQL commands for (a) to (f) and write the outputs for (g) on the basis of table STUDENT.

TABLE: STUDENT

No.	Name	Age	Department	Dateofadm	Fees	Sex
1	R.K. Pankaj	24	Computer	1997-01-10	120.50	M
2	S.P. Shalini	21	History	1998-03-24	200.00	F
3	K.P. Sanjay	22	Hindi	1996-12-12	300.50	M
4	M.P. Sudha	25	History	1999-07-01	400.50	F
5	S.P. Rakesh	22	Hindi	1997-09-05	250.00	M
6	G.P. Shakeel	30	History	1998-06-27	300.00	M
7	D.G. Surya	34	Computer	1997-02-25	210.50	M
8	B.P. Shikha	23	Hindi	1997-07-31	200.00	F

- a) To show all information about the students of History department. 1
- b) To list the names of female students who are in Hindi department. 1
- c) To list names of all students with their date of admission in ascending order. 1
- d) To display student's name, fees, age of male students only. 1
- e) To display the details of the students who are above 23 years. 1
- f) To insert a new row in the STUDENT table with the following data: 1
 9, 'A.S. Zaheer', 36, 'Computer', '1997-03-12', 230.00, 'M'
- g) Give the output of the following SQL statements: [Include the last inserted values in part (f)]
- (i) SELECT name, LCASE(name), UCASE(name) From student where fees < 250.00; ½
- (ii) SELECT DAYOFMONTH(Dateofadm) FROM STUDENT; ½
- (iii) SELECT MID(Name,6) FROM STUDENT; ½
- (iv) SELECT ROUND(Fees, -2) FROM STUDENT; ½

9. The LastName column of a table "CLUB" is given below: 2

LastName
Anu
Sagar
Samir
Gaurav
Ankur
Priya

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

- (i) SELECT LastName FROM CLUB Where LastName like "_a%";
- (ii) SELECT LastName FROM CLUB Where LastName not like "%r";

10. a) Write two important features of e-Governance. Give two most commonly used e-Governance sites. 2
- b) How is e-learning beneficial to students? 1
- c) Priya works for a school. She wishes to create controls on a form for the following functions. Choose appropriate controls from Textbox, Label, radio button, Check box, List box, Combo box, Command button and write in the third column. 2

SNo	Control used to :	Control
1	Enter admission number	
2	Select Stream	
3	Select Subjects	
4	Clear the Form	