

INTERNATIONAL INDIAN SCHOOL, DAMMAM
FIRST TERMINAL EXAMINATION, 2012-2013

SUBJECT: INFORMATICS PRACTICES
CLASS: XI

TIME: 3HRS
MAX MARKS: 70

SET A

1. Multiple Choice Questions:-

(10)

- i) _____ is a volatile memory.
a) ROM b) RAM c) DVD d) Flash memory.
- ii) A Bit stands for
a) Boolean Digit b) Binary Digit c) Binary Decimal d) Byte Digit
- iii) Which of the following is an utility software?
a) Word b) Railway Reservation System c) DBMS d) Compression Software
- iv) A _____ is used to block unauthorized access and to inspect network traffic.
a) Anti-virus b) Trojan c) Firewall d) Cookie
- v) The Swing control components are contained in the _____.
a) Design Window b) Inspector Window c) Properties Window d) Palette Window
- vi) What will be the output of "Hello".concat("World");
a) Hello World b) HelloWorld c) World Hello d) WorldHello
- vii) The storage provided by variables is _____.
a) Temporary b) Permanent c) Volatile d) None of these.
- viii) The vertical subset in a table is known as _____.
a) Tuple b) Row c) Attribute d) Relation
- ix) The _____ statement is used to extract data from a table in SQL.
a) SELECT b) DISPLAY c) READ d) EXTRACT
- x) Which keyword is used to return only different values in a column?
a) DIFFERENT b) EXCLUSIVE c) DISTINCT d) UNIQUE

2. Answer the following:-

- a) What is the function of the Control Unit? (1)
- b) Define the term software. (1)
- c) What is a language processor? Give example of language processors. (2)
- d) Differentiate between a virus and a worm. (2)

3. a) Explain the design window in Java. (1)

b) Rahul wants to design a GUI application in java using radio button. After running the program, he finds that he is able to select both the radio buttons? What should he do so that he is able to select only one radio buttons at a time? (1)

c) Define the following:- (2)

- i) Java Virtual Machine(JVM) ii) IDE

d) List any four characteristics of Java. (2)

e) Differentiate between text area and text field component. (2)

f) What is the usage of the following method? (2)

- i) `getText()` ii) `parseInt()`

4.a) Java is platform independent. Explain. (1)

b) What is the result of $7\%5$? (1)

c) Write any 2 rules for naming a variable in java. (1)

d) Item code consisting of 5 digits is stored in an integer type variable `intItemCode`. Mr. Srikant wants to store this Item code in a String type variable called `strItemCode`. Write appropriate Java statement to help him in performing the same. (2)

e) What do you mean by data types in java? What is the difference between `int` and `double` data type in java? (2)

f) Write a Java code to accept principal amount, rate of interest and time as input from the user and calculate the simple interest. (3)

5.a) Consider the following screen shot and answer the following questions given below:

Variable Name	Control Name	Remarks
Num1TF	TextField	To enter first number
Num2TF	TextField	To enter second number
ResultTF	TextField	To display the result
+Btn	Button	To add the two numbers
-Btn	Button	To subtract the two numbers
*Btn	Button	To multiply the two numbers
/Btn	Button	To divide the two numbers
RESETBtn	Button	To clear the text fields
STOPBtn	Button	To close the program

A) Write the code for the following:-

(4)

- +Btn to add both the numbers and display the result in ResultTF.
- Btn to subtract both the numbers and display the result in ResultTF.
- *Btn to multiply both the numbers and display the result in ResultTF.
- /Btn to divide both the numbers and display the result in ResultTF.

B) Write the code for **RESET** button to clear all text fields.

(2)

C) Write the code for **STOP** button to exit the program.

(1)

6.A. a) What is a database?

(1)

b) If a database "Employee" exists, which MySql command helps you to start working in that database?

(1)

c) What is the purpose of WHERE and ORDER BY clause in MySql?

(2)

- d) What is the difference in the output of SELECT statement if we write the keyword ALL in place of DISTINCT? (2)
- e) Differentiate between DDL and DML commands. (2)
- f) Define the following:- (3)
- i) Keyword ii) Primary Key iii) Clause

B. Write MySql commands for the following:-

a) To create a table **STOCK** with the following specifications: (2)

Name of Column	Type
Id	Integer
Name	Varchar(20)
Company	Varchar(20)
Price	Decimal(3,2)

- b) To remove the row having Id as 1005. (1)
- c) To view the structure of the table. (1)
- d) To add a row with the following values (1)
- (101, 'Computer', 'Dell', 42000)
- e) To display the existing tables in a database names SCHOOL. (1)

7. Consider the Table SHOPPE given below. Write command in MySql for (i) to (viii) and output for (ix)

Table **SHOPPE**:

Code	ItemName	Company	Qty	City	Price
102	Biscuit	Hide & Seek	100	Delhi	10.00
103	Jam	Kissan	110	Kolkata	25.00
101	Coffee	Nestle	200	Kolkata	55.00
106	Sauce	Maggi	56	Mumbai	55.00
107	Cake	Britannia	72	Delhi	10.00
104	Maggi	Nestle	150	Mumbai	10.00
105	Chocolate	Cadbury	170	Delhi	25.00

- (i) To display the details of all items. (1)
- (ii) To display the city of items without duplicates. (1)
- (iii) To display the names and company of the items whose name starts with 'C'. (1)

- (iv) To display the details of all items of Kolkata city in ascending order of code. (1)
- (v) To display the code, name and quantity of all items of Nestle Company. (1)
- (vi) To display the details of all items whose quantity ranges from 56 to 150(both values included). (1)
- (vii) To display item name, company and city of all items whose price is above 25. (1)
- (viii) To delete the records of Mumbai city. (1)
- (ix) Write the output for the following:- (2)
 - a) Select ItemName, Qty FROM Shoppe WHERE Company='Britannia';
 - b) Select ItemName FROM Shoppe WHERE ItemName LIKE '_a%';
 - c) Select Code, ItemName, Qty FROM Shoppe WHERE City='Delhi' ORDER BY Code Desc;
 - d) Select Company FROM Shoppe WHERE ItemName IN ("Jam", "Coffee");

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SET B

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1. Multiple Choice Questions:-

(10)

- i) When the electrical power is disrupted or cut off, data and programs are lost in
 - a) ROM b) Hard disk c) RAM d) Secondary storage
- ii) _____ is a secondary memory device
 - a) Mouse b) DVD c) ALU d) Speaker
- iii) Which of the following is a system software?
 - a) Windows b) Word c) DBMS d) Compression Software
- iv) A _____ is used to block unauthorized access and to inspect network traffic.
 - a) Anti-virus b) Trojan c) Firewall d) Cookie
- v) _____ is used to display and edit the attributes of the currently selected window.
 - a) Design Window b) Inspector Window c) Properties Window d) Palette Window
- vi) What will be the output of "Hello".concat((" ").concat("World"));
 - a) Hello World b) HelloWorld c) World Hello d) WorldHello
- vii) The storage provided by variables is _____.
 - a) Temporary b) Permanent c) Volatile d) None of these.
- viii) The horizontal subset in a table is known as _____.
 - a) Relation b) Column c) Attribute d) Tuple
- ix) The _____ statement is used to delete data from a table in SQL.
 - a) DELETE b) DROP c) TRUNCATE d) REMOVE
- x) Which SQL keyword is used to sort the rows in the output?
 - a) SORT ORDER b) SORT c) ORDER BY d) SORT BY

2. Answer the following:-

- a) What is the function of the ALU? (1)
- b) Define the term hardware. (1)
- c) What is a language processor? Give example of language processors. (2)
- d) Compare digital signature and digital certificate. (2)

3. a) Explain the inspector window in Java. (1)

- b) Rahul wants to design a GUI application in java using radio button. After running the program, he finds that he is able to select both the radio buttons? What should he do so that he is able to select only one radio button at a time? (1)

- c) Define the following:- (2)
 - i) Byte code ii) GUI

- d) Is Java case sensitive? What do you mean by the term case sensitive? (2)

- e) Differentiate between text area and text field component. (2)

- f) What is the usage of the following method? (2)
 - i) setText() ii) parseDouble()

4.a) Java is platform independent. Explain. (1)

- b) What is the result of 15%5? (1)

- c) Write any 2 rules for naming a variable in java. (1)

- d) Item code consisting of 5 digits is stored in an integer type variable intItemCode. Mr. Srikant wants to store this Item code in a String type variable called strItemCode. Write appropriate Java statement to help him in performing the same. (2)

- e) What do you mean by data types in java? What is the difference between int and double data type in java? (2)

- f) Write a Java code to accept principal amount, rate of interest and time as input from the user and calculate the simple interest. (3)

5.a) Consider the following screen shot and answer the following questions given below:

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A) Write the code for the following:-

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- +Btn to add both the numbers and display the result in ResultTF.
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- *Btn to multiply both the numbers and display the result in ResultTF.
- /Btn to divide both the numbers and display the result in ResultTF.

B) Write the code for **RESET** button to clear all text fields.

(2)

C) Write the code for **STOP** button to exit the program.

(1)

6.A.a) What is a database?

(1)

b) If a database "Employee" exists, which MySql command helps you to start working in that database?

(1)

c) What is the purpose of LIKE and WHERE clause in MySql?

(2)

- d) What is the difference in the output of SELECT statement if we write the keyword ALL in place of DISTINCT? (2)
- e) Differentiate between DDL and DML commands. (2)
- f) Define the following:- (3)
- i) Keyword ii) Candidate Key iii) Statement

B. Write MySql commands for the following:-

a) To create a table **STOCK** with the following specifications: (2)

Name of Column	Type
Id	Integer
Name	Varchar(20)
Company	Varchar(20)
Price	Decimal(3,2)

- b) To remove the row having Company Name as 'BPL'. (1)
- c) To view the structure of the above table. (1)
- d) To add a row with the following values (1)
- (101, 'Computer', 'Dell', 42000)
- e) To display the existing tables in a database named SCHOOL. (1)

7. Consider the Table SHOPPE given below. Write command in MySql for (i) to (viii) and output for (ix)

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106	Sauce	Maggi	56	Mumbai	55.00
107	Cake	Britannia	72	Delhi	10.00
104	Maggi	Nestle	150	Mumbai	10.00
105	Chocolate	Cadbury	170	Delhi	25.00

- (i) To display the details of all items. (1)
- (ii) To display the city of items without duplicates. (1)
- (iii) To display the names and company of the items whose name ends with 'E'. (1)
- (iv) To display the details of all items of Kolkata city in descending order of code. (1)

- (v) To display the code, name and quantity of all items of Nestle Company. (1)
- (vi) To display the details of all items whose quantity ranges from 56 to 150(both values included). (1)
- (vii) To display item name, company and city of all items whose price is below 50. (1)
- (viii) To delete the records of Mumbai city. (1)
- (ix) Write the output for the following:- (2)
- Select ItemName, Qty FROM Shoppe WHERE Company='Cadbury';
 - Select ItemName FROM Shoppe where ItemName LIKE '_a%';
 - Select Code, ItemName, Qty FROM Shoppe WHERE City='Delhi' ORDER BY Code;
 - Select Company FROM Shoppe WHERE ItemName IN("Sauce", "Maggi");
