

KENDRIYA VIDYALAYA SANGATHAN, KOLKATA REGION
SESSION ENDING EXAM (2015-16)
INFORMATICS PRACTICES
CLASS-XI

DURAION: 3 HOURS

MAXIMUM MARKS: 70

ALL QUESTIONS ARE COMPULSORY

Q1)

- a) Which of the following is not hardware: 1
(a) Hard Disk (b) Printer (c) CPU (d) Assembler
- b) What is the function of Primary Memory? 1
- c) Which operation is not performed by computer? 1
i. Inputting
ii. Processing
iii. Controlling
iv. Understanding
- d) Write one function of Anti-Virus Software? 1
- e) Write one point of difference between Operating System and Language Processor with one suitable example of each. 2
- f) How is backup utility useful? Is it necessary to take up backup of data? 2
- g) What do you understand by Firewall? Write one example of threat to the computer security. 2

Q2)

- a) What is byte code? 1
- b) Write the full form of IDE. 1
- c) Is Java case sensitive? What is meant by the term 'case sensitive'? 1
- d) Which of the following are not valid identifiers? 1
Data1rec, my.file, S_Name, data1, switch
- e) Name at any two common control used in Netbeans. Also write one property of each. 2
- f) What is meant by token? Name any two tokens available in java? 2
- g) What will be the result of $a=5/3$ if a is (i) float (ii) int ? 2

Q3)

- a) What is MySQL ? 1
- b) Is NULL value the same as 0 (zero)? Write the reason for your answer. 1
- c) Write the UPDATE command to increase the commission (Column name : COMM) by 500 of all the Salesmen who have achieved Sales (Column name : SALES) more than 200000. The table's name is COMPANY. 1
- d) While using SQL pattern matching, what is the difference between '_' (underscore) and '%' wildcard symbols ? 1
- e) How is Primary key constraint different from Unique key constraints? 2

f) Write one similarity and one difference between CHAR and VARCHAR data types. 2

g) Define the terms (i) Relation (ii) Domain. 2

Q4)

(a) What will be the value of following, if j=5 initially? 1

(i) $(5^{*++j})\%6$ (ii) $(5^{*j++})\%6$

(b) Write equivalent java expression for $e^{|2x-4y|}$. 1

(c) What will be the output in label jLabel1 after executing the following java code- 2

```
int First = 7;
int Second = 73;
First++;
if (First+Second > 90)
    jLabel1.setText("value is 90 ");
else
    jLabel1.setText("value is not 90 ");
```

(d) identify error(s) in following program code and rewrite the program code after correction. Underline each correction made 2

```
Int f=1;
for( a=40,a>10;a--)
{
f *=a;
Jtextfield1.print (" " + f);
}
```

(e) Which of the following is not a good programming guideline? 1

- A. Adding lots of comments
- B. Using pretty printing
- C. Using text fields to accept input of marital status
- D. Designing visually appealing forms

(f) Write java code to read marks in 3 subjects from text fields and calculate the total and average marks. Display the results in text fields. (Assume any valid control name.) 2

(g) What output will be displayed in JTextArea1 by the following java code -
`JTextArea1.setText(“WELCOME\nTO\t SCHOOL”);` 2

(h) Ms. Sujata has designed the following frame in Netbeans IDE to calculate and display the scholarship eligibility on the basis of aggregate marks.



Write the java code to perform the following task. (Assume suitable names for controls)

Aggregate Marks	Message
<50	Try Again
50-75	Weldone! Next Time
>75	Congratulation! You get the SCHOLARSHIP!!

- (i) When Scholarship Eligibility button is clicked, it should read the aggregate marks from text field and display the message into Text Area control as per the following criteria- 3
- (ii) When STOP button is clicked, it should close the application. 1

Q5)

- (a) Distinguish between Single Row and Aggregate functions of MySQL. Write one example of each. 2
- (b) Consider the following table named “SOFTDRINK”. Write commands of SQL for (i) to (iv) and output for (v) to (vii).

Table : SOFTDRINK

DRINKCODE	DNAME	PRICE	CALORIES
101	Lime and Lemon	20.00	120
102	Apple Drink	18.00	120
103	Nature Nectar	15.00	115
104	Green Mango	15.00	140
105	AamPanna	20.00	135
106	Mango Juice Bahaar	12.00	150

- (i) To display names and drink codes of those drinks that have more than 120 calories 1
- (ii) To display drink codes, names and calories of all drinks, in descending order of calories. 1
- (iii) To display names and price of drinks that have price in the range 12 to 18 (both 12 and 18 included). 1
- (iv) Increase the price of all drinks in the given table by 10%. 1
- (v) SELECT COUNT(DISTINCT(PRICE)) FROM SOFTDRINK; 1
- (vi) SELECT MAX (CALORIES) FROM SOFTDRINK; 1
- (vii) SELECT DNAME FROM SOFTDRINK WHERE DNAME LIKE “%Mango%”; 1
- (c) What is the degree and cardinality of ‘SOFTDRINK’ TABLE ? 1

Q6)

- (a) Write MySQL command to create the Table ‘LIBRARY’ with given constraints. 2

Table : LIBRARY

COLUMN_NAME	DATATYPE(SIZE)	CONSTRAINT
BookId	Int(10)	Primary Key
BookName	Varchar(40)	Not Null
Type	Char(4)	
Author	Varchar(40)	
No_Copies	Int(6)	
Price	Decimal(8,2)	

b) Consider the following tables Employee and Department.

Table :Employee

ECode	LastName	FirstName	Department
101	Sharma	Amit	Sales
102	Arora	Shiv	Personnel
103	Lakshmi	KS	Accounts
104	Rajlani	Shivika	Accounts
105	Thakral	Satvik	Sales

Table:Department

DepCode	DepName	Budget
101	Sales	200000
102	Personnel	150000
104	Accounts	300000

Write SQL statements to do the following:

- (i) Display the last names and first names of all employees from Employee table. 1
- (ii) Display the Department names of all employees, without duplicates from Employee table . 1
- (iii) Display all the details of employees with last name as "Lakshmi". 1
- (v) Display all the details of employees whose last name is "Rajlani" or "Sharma". 1
- (vi) Display the Ecode and first name of all employees of 'Accounts' department. 1

- (vii) Display department names from department table having budget above 180000. 1
- (viii) Display all the details of employees whose First name begins with "S". 1
- (ix) Display details from Department table in descending order of Budget amount. 1

Q7)

- (a) Name any two e-Business websites of India. 1
- (b) How has e-governance benefited to the common man? 2
- (c) What is e-Learning? What is the most outstanding feature of e-Learning? 2