

**Terminal Examination 2011-2012**  
**INFORMATICS PRACTICES**  
**Class- XII**

Time: 3 Hours

Maximum Marks:70

Note.

1. This question paper is divided into three sections.
2. Section-A and Section-B are of 25 Marks each.
3. Section –C consist of 20 marks
4. Answer the question after carefully reading the text.
5. All questions are compulsory.

Section –A

**1. Answer the following questions:**

- |   |   |
|---|---|
| a) What is the front end and back end in Java?                        | 1 |
| b) What are the advantages of database over conventional file system? | 3 |
| c) What is meant by “Data independence”?                              | 2 |
| d) What is key? Explain primary and foreign key.                      | 2 |

**2. Answer the following questions:**

- a) Which elements are needed to control a Loop? 1
- b) Mr. Ram works for the Customs Department. He wishes to create controls on the form for the following functions. Choose appropriate controls from Text box, Label, Option button, Check box, Combo box, Command button and write in the third column **[2]**

S.no	Control used to	Control
1.	Enter last name	
2.	Choose you Gender (M/F)	

3.	Choose the name of country That issued passport	
4.	Submit form	

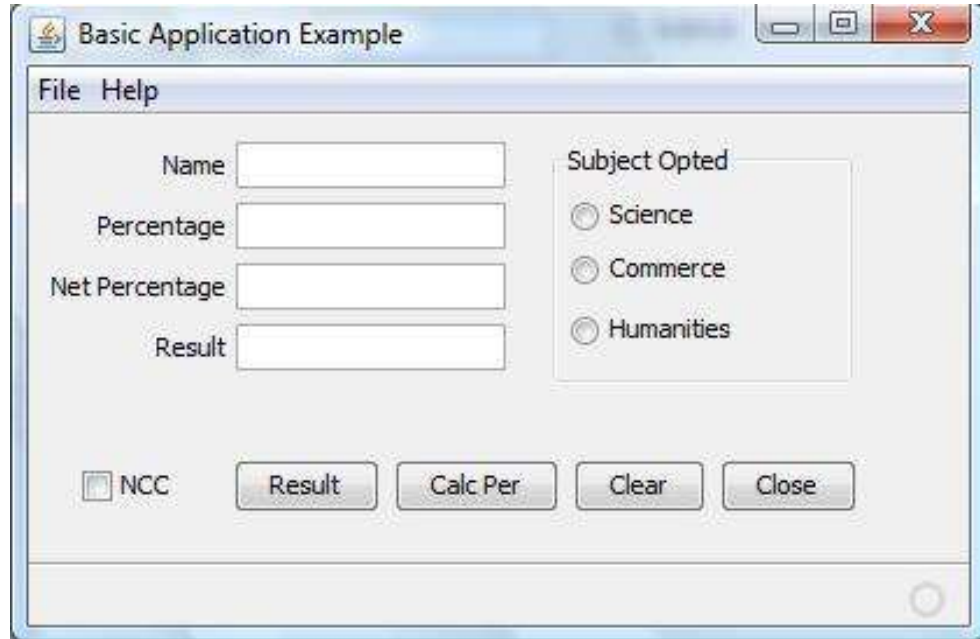
**3. Answer the following questions:**

- a) What is the purpose of ALTER TABLE Command? **2**
- b) Why do we use ROLLBACK statement? Explain in brief with the help of an example.  
**2**
- c) After creating the “school” database you want to use it. Write the command that you should give. **1**
- d) Explain the two wildcard character – and % used with the LIKE clause **2**
- e) What are joins? Why are they used? **2**
- f) What is the importance of group function in MySQL? **2**
- g) What is constraint.? Explain the difference between default and check constraints.

[3]

## SECTION-B

4. ABC School uses the following interface built in java to check the eligibility of a student for a particular stream from science, commerce and humanities. The user first enters the total percentage and selects the desired stream by selecting the appropriate option button. An additional 5% is marks is given to students of NCC.



**Write Java Code for the following**

- a. On the Action event of the close button the application gets closed. 2
  - b. On the Action event of the clear button all the text fields and the check boxes get cleared. 2
  - c. On Action event of the button 'Calc Percentage' Net percentage of the student is calculated and displayed in the appropriate text filed. Net percentage is same as that of the actual percentage if the student doesn't opts for NCC otherwise 5% is added to actual percentage. 3
  - d. On Action Event of the button 'Result', the application checks the eligibility of the students. And display result " in the appropriate text field. Minimum percentage for science is 70, for commerce 60 and for humanities 40. 3
- 5. Answer the following questions:**
- a) What will be the output of the following code snippet? 2

```
int x= 10;
```

```
int y = 20;
```

```
if ((x<y)||((x=5) > 10)
    System.out.println(x);
else
    System.out.println(y)
```

**b)** Find the syntax errors if any in the following programme: 2

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

**c)** Rewrite the following switch statement using if-else statement and display the result using appropriate IDE. 2

```
switch(number){
case 1:
    jLabel2.setText("digits");
    break;
case 10:
    jLabel2.setText("Tens");
    break;
case 100:
    jLabel2.setText("Hundreds");
    break;
case 1000:
    jLabel2.setText("Thousands");
    break;
default:
```

```

jLable2.setText("error");
break;
}

```

- d) What is difference between jRadioButton and jCheckBox? 2
- e) Write the method used to set some value in the label 1
- f) Differentiate between UL and OL tags used in HTML ? 1
- g) Name any two type of Tokens available in Java. 2
- h) Create a page about your hobbies(At List three hobbies). On the page include link to interesting sites that coincides with your description. For instance, if you like sports, you might create a link to <http://cnn.com/SPORTS/> for the benefit of your users. 3

## SECTION-C

### 6. Answer the following questions:

- (a) Write the difference between COMMIT and ROLLBACK 2

Consider the following tables PRODUCT and answer (b) and (c) part of this question

#### Relation :PRODUCT

PCODE	PNAME	COMPANY	PRICE	STOCK	MANUFACTURE	WARRANTY
P001	TV	BPL	10000	200	12-JAN-2008	3
P002	TV	SONY	12000	150	23-MAR-2007	4
P003	PC	LENOVO	39000	100	09-APR-2008	2
P004	PC	COMPAQ	38000	120	20-JUN-2009	2
P005	HANDYCAM	SONY	18000	250	23-MAR-2007	3

(b) Write MySQL commands for following Statements

- i. To show details of all the PC with stock more than 110. 1
- ii. To list the company which gives warranty for more than 2 years. 1
- iii. To find stock value of the BPL company where stock value is sum of the products of price and stock. 1
- iv. To show number of products from each company. 1

- v. To count the number of PRODUCTS which are manufactured in 2009.1
- vi. To show the PRODUCT name which are within warranty as on date.1
- (c) Give the output of following MySQL statement. 4
- (i) Select COUNT (distinct company) from PRODUCT;
- (ii) Select MAX (price) from PRODUCT where WARRANTY<=3;
- (iii) select AVG (price) from PRODUCT where Company="SONY";
- (iv) Select MIN (price) from PRODUCT where stock<200;

**7. Answer the following questions:**

- a) Study the following table STAFF and Salary and write MySQL command for the questions (i) to (iv) and give output for the (v) to (vi)

**TABLE: STAFF**

ID	Name	DEPT	SEX	EXPERIENCE
101	Siddharat	Sales	M	12
104	Raghav	Finance	M	6
107	Naman	Research	M	10
114	Nupur	Sales	F	3
109	Janvi	Finance	F	9
105	Rama	Research	M	10
117	James	Sales	F	3
111	Binoy	finance	F	12
130	Samuel	Sales	M	15

**TABLE: SALARY**

ID	Basic	Allowance	Commission
101	15000	1500	800
104	17000	1200	500
107	16000	1000	200
114	20000	2200	550
109	18000	1000	250

105	15000	1200	150
117	18000	1700	100
111	20000	1500	300
130	18000	1200	500

- (i) Display NAME of all the staff who is in SALES having more than 10 year experience from the table staff. 1
- (ii) Display the average Basic Salary of all staff working in "Finance" department using the table staff and salary. 1
- (iii) Display the minimum ALLOWANCE of female staff. 1
- (iv) Display the highest commission among all male staff 1
- (v) Select count(\*) from STAFF where sex='F'; 1
- (vi) SELECT NAME,DEPT,BASIC FROM STAFF,SALARY WHERE DEPT='SALES' AND STAFF.ID=SALARY.ID; 1

(b) Answer the question based on the table VOTER given below:

**Table : VOTER**

Column Name	Data type	Size	Constraints	Description
V_id	BIGINT	8	Primary key	Voter identification
Vname	VARCHAR	25	Not null	Name of the voter
Age	INT	3	Check>17	Age should not less than equal to 17
Address	VARCHAR2	30		Address of voter
Phone	VARCHAR	10		Phone number of the voter

- (i) Write the command to delete all the rows of particular voter from the table voter where voter ID between 10 and 20. 1

Delete the table physically. 1