GULF SAHODAYA (SAUDI CHAPTER) EXAMINATION -2013

GRADE:XI MAX.MARKS:70 DURATION: 3HRS Total pages: 6

SUBJECT: INFORMATICS PRACTICES

General Instructions:

- 1. All questions are compulsory.
- 2. Marks are indicated against each question.
- 3. Programming must be done in Java

Q1.

	(a)	What is a computer?	1		
	(b)	Which language processor converts a HLL program into machine language in one go?	1		
	(c)	Write the difference between Digital Signature and Digital Certificate.	2		
	(d)	What do you mean by CPU? Name the three sections of CPU.	2		
	(e)	Differentiate between primary and secondary memory.	2		
	(f)	Name the Cyber Act in India.			
	(g)	Expand the following:			
		i. OCR			
		ii. MICR			
Q2.					
	(a)	Differentiate between syntax error and logical error with example.	2		
	(b)	Write the equivalent do -while loop for the following.	1		
		int x, c;			
		for(x = 10, c = 20; c >= 10; c = c - 2)			
		x++;			
	(c)	Differentiate between:	2		
		(i) Textfield and TextArea components.			
		(ii) RadioButton and CheckBox			
	(d)	Write a java code to display the following output:	2		
		1			
		2 2			
		3 3 3			
		4 4 4 4			

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- (e) While working in NetBeans, Ms Kanta wants to display 'cleared' or 'Re attempt required' message depending upon the marks entered in jTextfield. Help her to choose more appropriate statement out of 'if' statement and 'switch' statement.
- (f) Write a java code that takes the price of a pencil from jTextfield1 and quantity of pencils 2 from jTextfield2 and calculates total amount as Price * Quantity to be displayed in jTextfield3.
- (g) Explain the following terms:
 - (i) Exception Handling
 - (ii) Prettyprinting

Q3.

(a) What will be the output of the following code segment?

```
String firstName = "Mahatma ";
String lastName = "Gandhi";
String fullName = firstName + lastName;
jTextField1.setText("Full Name: ");
jTextField2.setText (fullName);
```

(b) Rewrite the code after making the corrections. Underline the corrections.

```
int sum = 0; count=0;
int i;
for(i==0 ; i= < 10 ; i ++)
{
    sum =+ i;
    count ++;
}</pre>
```

(c) Find the output:

```
int f=1, i = 2;
    do{
        f * = i;
    } while( ++i < 5);
TF2.setText( "" + f);</pre>
```

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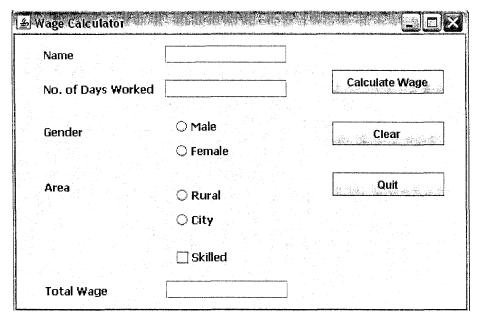
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(d) Write equivalent 'switch' statement for the following:

```
if ( code = = 's')
    jlabel1.setText("Season is Summer");
else if ( code = = 'r')
    jlabel1.setText("Season is Rainy");
else if ( code = = 'w')
    jlabel1.setText("Season is Winter");
else
    jlabel1.setText("Wrong code");
```

Q4.

(a) Mr. Madhav works in a construction company. To calculate total wages he has developed the following GUI in NetBeans. The sample screen shot is shown below:



Male and female labours are paid a basic of Rs. 150/- and Rs. 170/- per day respectively. Skilled labourers are paid extra at the rate of Rs. 100/- day. Labourers from rural areas are paid 10% less of the total amount.

- (i) When Calculate Wage button is clicked, the total wages is calculated as per the given 3 criteria and displayed in total wage text box.
- (ii) When Clear button is clicked, all the text boxes should be cleared and radio button, 2 check box should be deselected.
- (iii) Close the application when Quit button is pressed.

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	4.		1 2 2 2 2 2
Q5	(b)	Write the java statement to make jTextfield1 as non - editable.	THE
	(a)	What do you mean by a function in MySQL? Name any two string functions.	2 600
	(b)	Differentiate between DDL and DML commands with an example each.	2
	(c)	Differentiate between a Keyword and a clause with example.	2
	(d)	What is the purpose of the following commands in MySQL.	2
		(i) DESCRIBE	L
		(ii) CREATE	
	(e)	What is the purpose of a Column Alias? Write an example.	2
	(f)	Define RDMS?	1
	(g)	Distinguish between Primary Key and Candidate Key.	2
Q6			
	(a)	How do you list all the columns from a table named "Employee"?	1
	(b)	A table "Animals" in a database has 3 columns and 10 records. What is the degree and	1
		cardinality of this table.	
	(c)	If a database "School" exists, which MySQL command helps you to start working in that	1
		database.	
	(d)	The LastName column of a table "Directory" is given below:	2
		LastName	
		Batra	
		Sehgal	
		Bhatia	
		Sharma	
		Mehta	
		Based on this information, find the output of the following queries:	
		(i) SELECT LastName FROM Directory	
		<pre>WHERE LastName like "_a%";</pre>	
		(ii) SELECT LastName FROM Directory	

WHERE LastName not like "%a";

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Consider the following table "Loan Accounts".

Table: Loan_Accounts

						Interest
Consider	the following	table "Loan_Acco	ounts". Loan_Accou	nts		
AccNo	Cust_name	Loan_Amount	Instalments	Int_Rate	Start_Date	Interest
1	R.K. Gupta	300000	36	12.00	19-07-2009	
2	S.P. Sharma	500000	48	10.00	22-03-2008	
3	K.P. Jain	300000	36	NULL	08-03-2007	
4	M.P. Yadav	800000	60	10.00	06-12-2008	
5	S.P. Sinha	200000	36	12.50	03-01-2010	
6	P. Sharma	700000	60	12.50	05-06-2008	
7	K.S. Dhall	500000	48	NULL	05-03-2008	

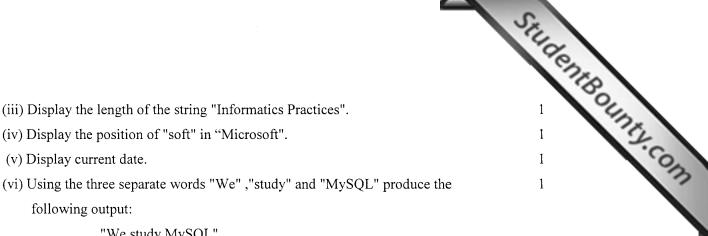
Write the SQL commands for (i) to (iv) and find output for (v) to (viii).

- 1 (i) Display the details of all the loans in the ascending order of their loan Amount and within Loan Amount in the descending order of their start date.
- 1 (ii) Display the details of all the loans whose rate of interest is in the range 11 to 12.
- (iii)Display the amounts of various loans from the table Loan Accounts. A loan amount 1 should appear only once.
- (iv)Display the cust name and loan_amount for all the loans for which the loan amount is less than 500000 or int_rate is more than 12.
- SELECT cust_name, LCASE(cust_name), UCASE(cust name) 1/2 FROM Loan Accounts

WHERE Int_Rate < 11.00;

- $\frac{1}{2}$ SELECT DAYOFMONTH (Start Date) FROM Loan Accounts; 1/2
- (vii) SELECT MID(cust name , 6) FROM Loan Accounts; 1/2
- (viii) SELECT ROUND(Int Rate, -1) FROM Loan Accounts;
- (f) Write SQL statements for the following:
 - (i) Display the day of week on which your birthday will fall in 2013.
 - (ii) Use the string "Internet is a boon" and extract the string "net".

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following output: "We study MySQL"

Define E-learning. Name any two websites of E-Learning.

(v) Display current date.

Q 7.	(a)	What is E- Business?
	(b)	Write short notes on E –Governance.

Mr. Ram works for the Customs Department. He wishes to create controls on the form for the following functions. Choose appropriate controls from Textfield, Label, Radio Button,

Check Box, Combo Box, Ok Button and write in the third column.

S.No	Control used to	Control
1.	Enter last name	
2.	Choose your Gender(M/F)	
3.	Choose the name of the country that issued passport.	
4.	Submit form	