Roll	No.				
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Code: 112014-065-A

Please check that this question paper contains 7 questions and 8 printed pages.

CLASS-XI INFORMATICS PRACTICES

Time Allowed: 3 Hrs. Maximum Marks: 70

General Instructions:

- (i) All the questions are compulsory.
- (ii) The question paper contains 7 questions.
- (iii) Programming Language used: GUI Java and RDBMS Software used: MySQL
- (iv) 15 minutes time has been allotted to read this question paper. During the time, the student will read the question paper only, he/she will not write any answer on the answer book duirng this period.

S. No.	Sub Part	Question	Marks
1.	(a)	Write one word for each of the following:	(1)
		(i) It is a hardware device which converts images of text into machine editable text.	
		(ii) It is a program that protects websites against bots by generating and grading tests that humans can pass but computer programs cannot.	
	(b)	Write the full form of the following terms:	(2)
		CIA, MICR	
	(c)	Write any two types of operating system. Write one feature for any one of them.	(2)
	(d)	What is the difference between the following:	(2+2)
		(i) Compiler and Interpreter (Write any two points)	
		(ii) Digital Signature and Digital Certificate (Write any one point)	
	(e)	Name the device which is used in a computer system or network to block unauthorized access.	(1)
2.	(a)	double d=Double.parseDouble(jTextField1.getText());	(1)
		In the above statement, what is the use of parseDouble() method?	

```
(b)
    What will be displayed in jTextArea1 after executing the following
    code?
                                                                               (1)
    for(int i=1; i<=5; i++)
    jTextArea1.setText(""+i);
    What is the difference between line wrap and word wrap property of
(c)
                                                                               (1)
    TextArea?
    Consider the following code:
                                                                               (2)
(d)
    Which statement is missing in order to execute this loop?
    int k=5, m=10;
    while(k \le 10)
    m=m+2;
    k=k+1;
          Which type of looping statement is used -Entry Controlled or
    (i)
         Exit Controlled?
    (ii)
         What happens if the statement k=k+1 is missing from the above
         code?
    In the given form, jComboBox1 is used to display the food items of a
(e)
    restaurant.
                                    ОК
    (i)
         Write the Java code to make jComboBox1 invisible.
    (ii)
         What is the index value, if no food item is selected?
                                                                               (2)
    Rewrite the following code using the if statement without affecting
(f)
    the output of the code:
                                                                               (2)
    char c;
    String p;
```

(ii) Define single ro (iii) Identify the column a Student table (i) Class	e Jobs"; Gates"; ng choice"; ce between Radio I g: ommand to display ow and multiple row umn which can be	structure of a stu w functions. used as a primar	dent table?	(1)
break; case 'i': p="Stevent break; case 'm': p="Bill break; default: p="wrong } What is the difference (Write any one point) Answer the following (i) Write MySQL continuous (ii) Define single rong (iii) Identify the color a Student table (i) Class	e Jobs"; Gates"; ng choice"; ce between Radio I g: ommand to display ow and multiple row umn which can be	structure of a stu w functions. used as a primar	dent table?	
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(Write any one point Answer the following (i) Write MySQL c (ii) Define single ro (iii) Identify the column a Student table (i) Class	g: ommand to display ow and multiple rou umn which can be	structure of a stu w functions. used as a primar	dent table?	
 (i) Write MySQL control (ii) Define single routing (iii) Identify the color a Student table (i) Class 	ommand to display ow and multiple rou	w functions. used as a primar		(1+2+1=4
 (i) Write MySQL control (ii) Define single routing (iii) Identify the color a Student table (i) Class 	ommand to display ow and multiple rou	w functions. used as a primar		(17271-1
(ii) Define single ro (iii) Identify the column a Student table (i) Class	ow and multiple rou	w functions. used as a primar		
(iii) Identify the color a Student table (i) Class	umn which can be	used as a primar	ry key in	
a Student table (i) Class		•	y Key III	
` '		('') Q1'.		
(iii) Admission		(ii) Section		
(111)	_Number	(iv) Name		
(i) Differentiate be examples of each	tween DDL and Di	ML commands. (Give two	
(ii) Alok has create	d a table Employe	e in MySQL.		$(2 \times 3 = 6)$
	Table: Employ	yee		
Empno	Ename	Location]	
101	Rakesh	Chennai]	
102	Neha	Mumbai		
103	Pooja	Delhi		
104	Ajay	Mumbai		
105	Vinay	Delhi		
He has written the f	ollowing SQL quer	v:	•	
		•	umhai' or	
			umpar or	
	Empno 101 102 103 104 105 He has written the finance from	Table: Emplo Empno Ename 101 Rakesh 102 Neha 103 Pooja 104 Ajay 105 Vinay He has written the following SQL quer Select Ename from the Employee wh	Table: Employee Empno Ename Location 101 Rakesh Chennai 102 Neha Mumbai 103 Pooja Delhi 104 Ajay Mumbai 105 Vinay Delhi He has written the following SQL query:	Table: Employee Empno Ename Location

ΙP

Write another SQL query which will give the same output as above.

(iii) Consider the table Department:

Name	Dname	Location
Abhay	Marketing	Delhi
Chetan	Research	Bangalore
Sonali	Production	Mumbai
Zubin	Personnel	Srinagar

How will the output of following two queries differ?

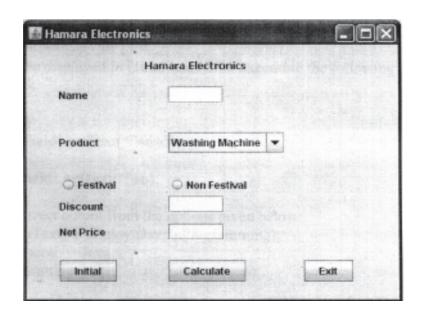
SELECT Dname FROM Department where Location like '%i';

SELECT Dname FROM Department where Location like '__iw';

4. (a) Hamara Electronics has the following products with their prices given. The store gives 5% discount on every product. However, at the time of festival season the store further gives 5% discount.

(1+4+1=6)

Product	Price
Washing Machine	₹ 15000
LED TV	₹ 35000
Refrigerator	₹ 20000
Microwave	₹ 8000



```
Write the Java code for the following:
         Clicking the Initial button will disable the textboxes for
         Discount (jTextfield2) and Net Price(jTextField3).
    (ii)
         Clicking the Calculate button will calculate the Net Price on
         the basis of Discount given above and display Discount and
         Net Price in the appropriate textboxes.
    (iii) Clicking the EXIT button will close the application.
(b)
                                                                               (2)
    What will be the output of the following code:
    int k=10;
    for(int j=2;j<=10;j=j+2)
         k=k+j;
         jTextArea1.setText(""+k);
    jTextArea1.append(""+j);
    How many times will the following loop get executed?
                                                                               (2)
(c)
    int p=5, q=35, x=0;
    while(p<q)
         x=x+p;
         p+=1;
(d)
    (i)
         Find the errors in the code given below:
                                                                               (2)
         Int p=3:sum=0;
         Do
             sum=p;
             p+=3;
         \}while(p=<12);
         Joptionpane.showMessagedialog(null,"correct the code");
         What will be displayed in jTextField1 after executing the
                                                                               (2)
    (ii)
         following code:
         int n=20;
         n=n+5;
```

if(n<21)jTextField1.setText(""+n+5); else jTextField1.setText(""+n); (e) Choose the correct output from the options given below: (1) jTextArea1.setText("I\tEnjoy\tJava\nProgramming); (i) Ι Enjoy Java Programming (ii) Ι Enjoy Java Programming

5. (a) Write MySQL commands based on the table given below:

(2+1+1=4)

Table: BANK

Field Name	Data Type	No. of	Constraint
		Characters	
Acc_Number	INTEGER		PRIMARY KEY
Name	VARCHAR	15	NOT NULL
DOB	DATE		
Balance	INTEGER		NOT NULL

- (i) Create the above table Bank with the constraints given.
- (ii) Write MySQL command to add a column Address of datatype varchar (20).
- (iii) Write MySQL command to change the size of Name field to 30 characters.

(b) Consider the table Employee and answer the questions that follows: $(1\times4=4)$

Table: Employee

Empno	Ename	Dept	DOJ	Age	Salary
E101	Raj Kumar	Sales	2011-03-10	35	29000
E102	Shailija	Marketing	2012-01-01	30	30000
E103	Paras	Production	2010-09-23	34	32000
E104	Mohan	HRD	2012-05-15	45	40000
E105	Vidhushi	Marketing	2011-04-30	40	38000
E106	Sapna	Sales	2013-02-18	31	27000

		IVNI	WNomo	DOR	Addross	Condon	
		queries	8:				(1×4=4)
	(c)	Consider the table VOTER and write the output of the following					
		(iv) S	iv) SELECT ASCII("APPLE");				
		(iii) S	ELECT LCAS	SE ("MYSQL);			
		(ii) S	ELECT CON	CAT ("INFO",N	IULL,"MATICS");		
		(i) S	ELECT TRU	NCATE (76.235	5,-1);		
	(b)	Write 1	the output of	the following S	QL statement:		$(1 \times 4 = 4)$
6.	(a)	Differe	ntiate betwee	en logcial operat	or OR and AND in	MySQL.	(1)
	(d) Write SQL statement to display the position of 's' in the Department					Department.	(1)
	(c)		SQL statements SQL statements SQL statements		e characters from 3r	d to 7th	(1)
					for all the employee		
			o display nam etween 35 an	-	ent of employees wh	nose age is	
		(ii) T	o display deta	ils of employees	in descending order	of Salary.	
		D	epartment.				
		(i) T	o show all the	information abo	out employees who ar	re in Sales	

VNo	VName	DOB	Address	Gender
1	Aman	1990-09-23	Rohini	M
2	Raman	1993-06-03	Dwarka	M
3	Vasuda	1991-01-18	Gomti Nagar	F
4	Rekha	1994-07-20	Adarsh Nagar	F
5	Rahul	1992-03-07	Punjabi Bagh	M
6	Sugandh	1991-09-15	Rohini	F
7	Paras	1992-11-26	Dwarka	M

- (i) SELECT UPPER (VName) FROM Voter WHERE Address='Rohini';
- (ii) SELECT MID (Address,3,6) FROM Voter WHERE Gender = 'M' and VName like 'R%';
- (iii) SELECT MONTH (DOB) from Voter where WNo>5;
- (iv) SELECT LEFT (VName,5) FROM Voter WHERE year(DOB)=1992;

	(d)	Will the output of the following two queries be same? Give reason.	(1)
		(i) SELECT MID (Address,-3) FROM Voter where VName="Aman";	
		(ii) SELECT RIGHT (Address, 3) FROM Voter where VName="Aman";	
7.	(a)	What is e-business? Give its two features.	(2)
	(b)	Shikhar is creating a form to enter user's data for his project work. Help him to choose most appropriate controls from List box, Combo box, TextField, PasswordField, TextArea, RadioButton, Check box,	0
		Label and Command button for the following entries from user.	2
		(i) A control used for encrypted text.	
		(ii) An input to choose from a list of grades.	
		(iii) An input to enter remarks.	
	(0)	(iv) An input to accept the gender. What is e-waste?	(1)
	(c)	what is e-waste!	(1)