Series : SKS/1	I gnisu slidy xabril to sulay radixs or base st. Code No. 90/1
Roll No.	Candidates must write the Code on the title page of the answer-book.
Code number give title page of the a	this question paper contains 8 printed pages.  en on the right hand side of the question paper should be written on the aswer-book by the candidate.
Please check that	this question paper contains 7 questions.
Please write dov	n the Serial Number of the question before attempting it.
distributed at 10	has been allotted to read this question paper. The question paper will be 1.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the ly and will not write any answer on the answer-book during this period.

## INFORMATICS PRACTICES

Time allo	wed: 3 hours ] [Maximum mark	:s : <b>70</b>
Instructi	· · · · · · · · · · · · · · · · · · ·	
. 2	(ii) Answer the questions after carefully reading the text.	
1. (a)	Which wireless communication channel is most appropriate in each of the following situations?	he 1
	(i) Communication in a hilly area.	
	(ii) Very fast communication between two offices in two different countries.	
(b)	With what aim UNICODE was developed?	1
(a) itable 2	Expand the following file extensions:  (i) ODF  (ii) XML	1
(d)		1
(e)	(a) With a contract of the con	2
(f)	Give two characteristics of Star Topology. Also, show it using a diagram with interconnection of 5 computers.	ith 2
(g)	(c) Define Foreign Key with reference to RDBMS.	2
90/1	2 1	P.T.O.

Name method is used to extract value of Index while using ListBox in Java. What is the difference between the use of isSelected and setSelected methods used with JCheckBox in Java? I Kell No. Name any two commonly used methods of JComboBox control. 1 (d) Name any two attributes used in <img> tag of HTML. 1 ed no n How many times the following loops will execute the statements inside it? Which one of them is Entry Control and which one is Exit Control? 2 Loop 1. Please sheek that this question paper.2 qools Z questions. int j=8, total=0; up int j=8, total=0; while (j>1) que nonseup naper will be 15 minutes time has been allotted to read ob distributed at 11 15 a.m. From 10.15 a.m. to 10.30 a.m., the students question paper only and will not write any the wer on the answer-book duking this period. total+=j; total+=j; INFOR, 2=-1 CS PRACTICE; 2=-1 [ Maximum marks: 70 while (j>1); (f) What will be displayed in jTextFieldl and jTextField2 after the execution of the (ii) Answer the questions after cerefully readin? qool gniwollof int Total=0, End=10; (a) 2: Which wireless communication channel for (int Turn=1; Turn<=End; Turn+=2) { another is grawelled Communication in a hilly area. Total++; jTextFieldl.setText(Integer.toString(Total)); With what aim UNICODE was develo jTextField2.setText(Integer.toString(Turn)); Differentiate between the <BR> and <HR> tags of HTML with suitable (g) example. (d) Give one example of URL and one example of domain name. 3. Write a command to add a NOT NULL constraint on FEES column of a student 1 Citye two characteristics of Star Topology. Also, show it using a diagram with Write SQL command to create a SAVEPOINT called A1. (b) 1 (c) Define Foreign Key with reference to RDBMS. 1

2

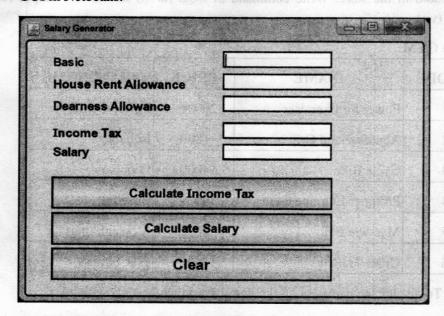
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90/1		(2) 전에 가장 보면 보는 10 HT	P.T.O.
		<pre>jTextAreal.setText(Integer.toString(C));</pre>	
		for (int C=1;C<=Last;C++)	
	(0)	<pre>int Last=Integer.parseInt(jTextFieldl.getText());</pre>	
	(b)	Rewrite the following programme code using a while loop statement :	2
		<pre>jTextFieldl.setText((Message.length()-6)+" ");</pre>	
0	18	(ii) String Message="All The Best";	(1)
		<pre>(i) jTextAreal. setText ("Go\tGreen\nINDIA");</pre>	
4.	(a)	What will be the content of jTextArea1 and TextField1 after the execution of the following statements?	ne 2
		Rewrite the above query to get the desired output.	
		Rewrite the above query to get the desired output.	
2		SELECT * FROM EMP ORDER BY NAME DESC, DEPT;	
1		He wants to display all information of employees (from EMP table) in ascending order of ENAME and within it in ascending order of DEPT. He wrote the following command, which did not show the desired output.	_
		ECODE, DEPT, ENAME, SALARY	
	(g)	Mr. Tondon is using table EMP with the following columns.	2
		<pre>jTextField2.setText(Integer.toString(Num));</pre>	
		<pre>int Num=Integer.parseInt(jTextFieldl.getText());</pre>	
	(f)	Name the methods used to convert one type of data to another in the following statements of Java.	g 2
		SELECT COUNT (HOBBY) FROM CONTACTS; (2134400) 31	
		SELECT COUNT(*) FROM CONTACTS;	
	(e)	There is a column HOBBY in a Table CONTACTS. The following two statements are giving different outputs. What may be the possible reason?	2
1		them?	1
	(a)	columns. What will be the cardinality and degree of the Cartesian product of	

```
(c) Observe the following code carefully and find which statement will never get
 columns. What will be the cardinality and degree of labos and ni batusase of
                                             //Statement 1
    int Count=1;
 There is a column HOBBY in a Table CONTACTS. The following two
    do nozem sidizzog sit ed vem radiv zauguo merelli //Statement 2
                            2 TOATMOO MOST //Statement 3
                        :2TDATMOD MOST (YEEO//Statement 4
       if (Count<15)
 jTextFieldl.setText("Jump"); //Statement 5
       else
                                             //Statement 6
         int Num=Integer.parseInt(jTextFieldl.qetText())
          jTextFieldl.setText("Stop");
                                             //Statement 7
                                             //Statement 8
                 ndon is using table EMP with the following columns
                                             //Statement 9
    Write Java statement to make jButton1 disabled.
                 following command, which did not show the desired output
    What will be displayed in jTextFieldl after the execution of the following code?
(e)
    int Sum, One=3, Two=5;
                           Rewrite the above query to get the desired out
    Sum = One + Two++;
    jTextFieldl.setText(Integer.toString(Sum));
    jTextField2.setText(Integer.toString(Two));
    What will be the contents of Text1 and Text2 after the following code is
    executed?
    String Text2, Text1; Page 1980) | String Text2, Text1;
    Textl= "Good Morning";
    int Last=Integer.parseInt(jTextFieldl.qetText());
Text2="India";"sibnI" = Text2
    Text1=Text2.concat(Text1);
                 TextAreal.setText(Integer.toString(C));
```

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(g) Shekher is a junior programmer at ducom Enterprises. He created the following GUI in Netbeans.



Help him to write code for the following:

(i) To calculate Income Tax to be paid and display in jTextField4 on the click of Command Button "Calculate Income Tax" as per the following condition:

If the Basic is less than 50000 then IncomeTax =Basic\*0.2

And if is greater or equal to 50000 then lncomeTax=Basic\*0.3

(ii) To calculate Salary and display in jTextField5 on the click of Command Button "Calculate\_Salary".

Hint:

Salary =

(Basic+ Dearness Allowance+House Rent Allowance)-Income Tax.

(iii) To Clear all Text Fields on the click of Command Button "Clear".

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2

- 5. (a) What is the use of UPDATE statement in SQL? How is it different from ALTER statement?
  - (b) Mr. Shankar created a table VEHICLE with 3 rows and 4 columns. He added 1 more rows to it and deleted one column. What is the Cardinality and Degree of the Table VEHICLE?

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(c) Consider the following table named "GYM" with details about fitness items being sold in the store. Write command of SQL for (i) to (iv) and output for (v) to (vii).

Table GYM:

ICODE	INAME	PRICE	BRANDNAME
G101	Power Fit Exerciser	20000	Power Gymea
G102	Aquafit Hand Grip	1800	Reliable ************************************
G103	Cycle Bike	14000	Ecobike
G104	Protoner Extreme Gym	30000	Coscore
G105	Message Belt	5000	MessagExpert
G106	Cross Trainer	13000	GTCFitness

- (i) To display the names of all the items whose name starts with "A".
- (ii) To display ICODEs and INAMEs of all items, whose Brandname is Reliable or Coscore.
- (iii) To change the Brandname to "Fit Trend India" of the item, whose ICODE as "G101".
- (iv) Add a new row for a new item in GYM with the details: "G107", "Vibro exerciser",21000,"GTCFitness"
- (v) SELECT COUNT (DISTINCT (BRANDNAME) ) FROM GYM;
- (vi) SELECT MAX (PRICE) FROM GYM; and answer normal
- (vii) SELECT INAME FROM GYM WHERE INAME LIKE "%t";
- 6. (a) Write SQL command to create the table Vehicle with given constraint.

(iii) To Clear all Text Fields on the click of Command INALIAHO saldeT

COLUMN_NAME	DATATYPE(SIZE)	CONSTRAINT
Challan_No	Decimal(10)	Primary Key
Ch_date	Date	1
RegNo	Char (10)	kar oreated a table to it and deleted
Offence	Decimal(3)	VEHICLE ?

2

(b) In a Database Karnataka\_Sangam there are two tables with the instances given below:

Table: STUDENTS

ADMNO	NAME	CLASS	SEC	RN	ADDRESS	PHONE
1211	Meena	12	on <b>D</b> Be.	4	A-26	2345678
1212	Vani	10	D	1	B-25	5456789
1213	Meena	12	Α	1	Function	S.No
1214	Karish	10 10 Rif	В	3	AB-234	4567890
1215	Suraj	( oi <b>11</b> ) id	lifo <b>C</b> age	2	ZW12 0T	4345677

Table: SPORTS to be book where to show mutually wolls of

ADMNO	GAME	COACHNAME	GRADE
1215	Cricket	Mr.Rai	A
1213	Vollyball	Ms. Chadha	В
1211	Vollyball	Mr. Govardhan	A
1212	Basket Ball	Mr. Tiwani	В

Write SQL queries for the following:

- (i) To count how many addresses are not having NULL values in the address column of students table.
- (ii) To display Name, Class from STUDENT table and the corresponding Grade from SPORTS table.
- (iii) To display Name of the student and their corresponding Coachnames from STUDENTS and SPORTS tables.
- (c) Answer the questions (i) and (ii) based on the following table :

Table: FACULTY

FNO	FNAME	AGE	DEPARTMENT	GRADE
111	Moksha	40	Biology	A
123	Malini	35	Maths	A
125	Akshit	43	English	В
130	Nishant	27	Maths	В

- (i) Identify the Primary Key in the Table Faculty.
- (ii) Write SQL Command to change the Grade of Nishant to "A".

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7

- (a) How popularity of e-Commerce has benefitted a common man? Give the domain name of one popular e-Commerce site.
  - (b) Give two addresses of most commonly used e-Learning sites.

(c) Shobhit is creating a form for his company. Help her to choose most appropriate controls from ListBox, ComboBox, TextField, TextArea, RadioButton, CheckBox, Label and Command Button for the following entries. 2

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2

S.No	Function A CI SHOOM FICE
26 <b>1</b> 89	To select citizenship from a list of countries
2	To allow to input grade out of 'A' to 'D'
3	To allow selecting one or many food items
4	To allow entering Feedback in the form of a paragraph

Cricket	Mr.Rai	
Voltybali	Ms. Chadha	8
	Mr. Govardhan	A
Basket Ball	Mr. Tiwani	

(i) To count how many addresses are not having NULL values in the address

(ii) To display Name, Class from STUDENT table and the corresponding

(iii) To display Name of the student and their corresponding Coachnames from STUDENTS and SPORTS tables

Answer the questions (i) and (ii) based on the following table :

. 2000000	I I AU JEVE			
	PNAME	AGE	DEPARTMENT	GRADE
[1]	Moksha		Biology	Α
	Malini		Maths	A
		43	English	B
		27	Maths	8

(i) Identify the Primary Key in the Table Faculty.

Write SQL Command to change the Grade of Nishant to "A"