

MODEL PAPER - SET-I
SUB: INFORMATICS PRACTICES
CLASS: XII

Time: 3 Hrs

Max.Mark: 70

1.

- a) Mr. Ramesh is working in an Global Organisation. He wants to login in his office's computer from his home.Suggest the protocol for the same. 1
- b) Which device is used for connecting multiple networks over different protocols? 1
- c) Identify the following topologies. 1
- (1) A signal/data packets transmit from one end to other end in linear way.
- (2) Each node is connected to two and only two neighboring nodes in circular form.
- d) Write any two scripts included in Indian Languages on Unicode. 1
- e) What is the difference between free software and freeware ? 2
- f) Arun is not clear about the wireless and wired media of communication kindly describe it to him with suitable example. 2
- g) Explain the term ODF and Ogg Vorbis. What are the advantages of these over others?2

2

- (a) Which property of the radio button should be set to make the radio buttons mutually exclusive? 1
- (b) Name one container for each of the following categories. 1
- (i) Top level container
- (ii) Middle level container
- (c) Write two examples of empty tag. 1
- (d) What do you mean by web server? 1
- (e) How many times does the following loop execute? What is the value of num after the execution? 2

```
int num=5;
```

```
do
```

```
{
```

```
    System.out.println("Hello world");
```

```
num--;  
}while (num>2);
```

- (f) Write a function in java that receives a 3 digit integer and return its middle digit. 2
(g) Difference between GET and POST methods of <FORM> tag. 2

3.

- a) Mr.Ramesh has created a table SUPPLIER in the database. On of the fields in the table is city. Write the command to display city by avoiding duplication. 1
b) Mr.Sunil created a table “BOOK” in MySQL. He forget to set the PRIMARY KEY for the table. Which command should he used to set it for the field “Bid”. 1
c) What is the purpose of the following query. 1
SELECT COUNT(mark) FROM STUDENT
d) Can a table have multiple PRIMARY KEY? Exapin. 2
e) EmpName, Sal of EMP table given below 2

EmpName	Sal
Saravanan	2800
Neethu	3200
Lekshmi	3500
Ganesh	2700

Based on this information, find the output of the following queries.

- a) SELECT COUNT(*) FROM EMP WHERE Sal>=3000;
b) SELECT EmpName,Sal FROM EMP WHERE Sal IS NULL;
f) What is the significant of DROP TABLE command? 2
g) A table ACCOUNTS in a database has 14 columns and 4 records. What is its degree if 2 more rows are added into the table? 1

4.

- (a) What is an interface? 1
(b) Given a string Object namely *month* having value as “11” stored in it. What will be the result of following code? 1
JOptionPane.showMessageDialog(null,“ ” + (month.length() + Integer.parseInt
(month)));
(c) What will be the content of jTextField1 after executing the following statement? 1

```
textField1.setText("Informatics".substring(3));
```

(d) Given the following for loop write equivalent while loop for the above code 2

```
int sz= 25;
for(int i=0, sum=0;i<sz; i++)
    sum=sum + 1;
```

(e) The following code has some error(s).Rewrite the correct code underlining all the corrections made. 2

```
m=1;
n=0;
for (; m+n<19;++n)
    System.out.println("Hello" \n);
m= M+ 10;
```

(f) What will be the contents of JTextField1 and JTextField2 after executing the following code 2

```
textField1.setText("Business".substring(3,4));
textField2.setText("studies".toUpperCase());
```

(g)

5.

a) Explain 2 DDL commands with example. 2

b) Write the output of the following sql commands. 2

- (i) SELECT RIGHT('USS/23/67/09',2);
- (ii) SELECT RTRIM('RDBMS MYSQL ');
- (iii) SELECT MOD(7,3);
- (iv) SELECT LENGTH('WELCOME');

c) Write the SQL command for the following on the basis of given table. 6

Table : SPORTS

StudentNo	Class	Name	Game1	Grade1	Game2	Grade2
10	7	Sammer	Cricket	B	Swimming	A
11	8	Sujit	Tennis	A	Skating	C
12	7	Kamal	Swimming	B	Football	B

13	7	Venna	Tennis	C	Tennis	A
14	9	Archana	Basketball	A	Cricket	A
15	10	Arpit	Cricket	A	Athletics	C

- (a) Display the names of the students who have grade 'A' in either Game1 or Game2 or both.
- (b) Display the number of students having game 'Cricket'.
- (c) Display the names of students who have same game for both Game1 and Game2.
- (d) Display the games taken by the students whose name starts with 'A'.
- (e) Give the output of the following sql statements.
 - (i) SELECT COUNT(*) FROM SPORTS.
 - (ii) SELECT DISTINCT Class FROM SPORTS.
 - (iii) SELECT MAX(Class) FROM STUDENT;
 - (iv) SELECT COUNT(*) FROM SPORTS GROUP BY Game1;

6.

- a) Write a SQL query to create following table "Items" with following descriptions. 2

Table : ITEMS

Field	Type	Constraint
Item_Code	Integer(5)	Primary key
Item_Name	Varcahr(15)	Unique
CostperItem	Decimal(5,2)	Not Null
Qty	Integer(4)	
DateofPurchase	Date	
Warranty	Integer	Default value 1 year
Operational	Integer(2)	

[B] In database there are two tables "CONSIGNOR" and "CONSIGNEE" tables.

Table : CONSIGNOR

CNORID	CNORNAME	CNORADDRESS	CITY
ND01	R BABU	24,ABC AVENUE	CHENNAI
ND02	AMIT GUPTA	12,RAKSHA COLONY	NEW DELHI
MU15	RAJ	55, SOUTH	MUMBAI

	MATHUR	STREET	
MU50	KARAN KHANNA	27-K,WEST CUBIC	MUMBAI

Table : CONSIGNEE

CNEEID	CNORID	CNEENAME	CNEEADDRESS	CNEECITY
MU05	ND01	RAHUL KISHORE	5,PARK AVENUE	MUMBAI
ND08	ND02	P DHIMANT	16/J,MOORE ENCLAVE	NEW DELHI
KO19	MU15	A P ROY	2 A,CENTRAL AVENUE	KOLKATA
MU32	ND02	S MITTAL	P 245,AB COLONY	MUMBAI
ND48	MU50	B P JAIN	13,BLOCK D, A VIHAR	NEW DELHI

- (1) Give the primary key in both tables and foreign key in CONSIGNEE table. 1
- (2) What is cardinality and degree in both tables? 1

b) In database there are two tables “FLIGHTS” and “FARES” as below :

Table : FLIGHTS

FL_NO	STARTING	ENDING	NO_FLIGHTS	NO_STOPS
IC301	MUMBAI	DELHI	8	0
IC799	BANGLORE	DELHI	2	1
MC101	INDORE	MUMBAI	3	0
AM812	KANPUR	BANGLORE	3	1
IC302	DELHI	MUMBAI	8	0
IC899	MUMBAI	KOCHI	1	4
AM501	DELHI	TTRIVANDRUM	1	5

Table : FARES

FL_NO	AIRLINES	FARE	TAX%
IC302	INDIAN AIRLINES	4300	10
IC899	INDIAN AIRLINES	8300	10
MC101	DECAN AIRLINES	3500	4
AM812	JET AIRWAYS	4500	5

AM501	JET AIRWAYS	8400	8
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Write a SQL query for que (i) and (ii) and output for que(iii)

(1) Display the minimum fare “Indian Airlines” if offering from the tables. 2

(2) Display the FL_No and FARE ,where fare for the flights from DELHI to MUMBAI using the tables FLIGHTS and FARES,where the fare to be paid

=FARE+FARE*TAX/100 2

(3) SELECT FLIGHT.FL_NO, NO_FLIGHTS,AIRLINES FROM FLIGHTS,FARES 2
WHERE FLIGHTS.STARTING='DELHI' AND FLIGHT.FL_NO=FARES.FL_NO;

7.

(a) Give one social impact of e-learning ? 1

(b) What benefits does an e-business offer to the customers ? 2

(c) Mr. Das is working as a Manager in the Shivam Enterprises. He wants to create 2 controls on a form for the following functions. Choose appropriate controls from Text field, Label, Radio Button, Check box, List, Combo Box, Button and write in the third column.

S.No.	Controls Used to:	Control
1	Enter First name, Address, Basic Salary	
2	Select Gender (M/F)	
3	Choose type of employee (Permanent / Regular)	
4	Display the picture of the employee	