

iii)

CLASS XI GUESS PAPER COMPUTER SCIENCE(Python)

Syllabus: Number System, Database Concepts, SQL, NoSQL, List

MM: 50 Mks				Duration:				
Question 1	. SQL						[15]	
i)	Create a table n	ame EMP v	with following st	ructure			[3]	
	Column Name Data Type							
		Name char (30)	Designation Char(10)	DOJ Date	sal integer	comm integer	DeptID integer	
Constraint Primary Key on EmpID not null on EmpName sal on Check> 1000 ii) Create a table named scholar with the following specification: [3]							[3]	
	Column Name	Da	tatype	Cor	nstraints	Description		
	ScholarNo		of size 3	Prir	mary key	•	To store scholar	
	schName	Cha	ar of size 10	Not	null	To store the	e scholar's	
	Gender	Cha	ar of size 1	Not	null			
	P_age	Int	of size 3		eck that no value uld be more tha			

How can we can change the structure of a table ie. add, remove or change its column(s)? [1]



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iv)	Define DISTINCT keyword.	[1]
v)	Which operator selects values that match any value in the given list of values.	[1]
vi)	Define "null".	[1]
vii)	How to select all columns of a table?	[1]
viii)	How would you display all those rows from a table named "Friends" where the	value of
	the column "Hobbies" is "SWIMMING"	[1]
ix)	How do you select all the rows from a table named "Student" where the value	of the column
	"FName" starts with "G"?	[1]
x)	Which SQL keyword(s) is/are used to sort the rows in the output?	[1]
xi)	Which statement is appropriate to change the first name "Madhur" to "Mridul"	' in the
	"FName" column in the 'Student' table?	[1]

Question 2 SQL [5+5=10]

a)

Accno	BName	CName	LAmount	Instalments	Irate	IsDate
1	SBI	Rajesh	750000	142	12.00	2011-07-19
		Singh				
2	PNB	Divya Bharti	1580000	252	10.00	2010-03-22
3	UCO	Ramesh	530000	140	NULL	2012-03-08
		Sahu				
4	ICICI	K P Mathur	1700000	154	12.50	2009-06-05
5	HDFC	J N Mittal	1500000	190	NULL	2010-03-05

With reference to the above table named 'loan', write SQL queries for the following: [5]

- 1. Display the detail of all the loans whose rate of interest is NULL
- 2. Display the name of banks who bname is either sbi or icici from the table LOAN
- 3. Increase the interest rate by 0.2 for all the loans for which the interest rate is not null
- 4. Display Accno, BName and LAmount in ascending order of Irate for which the second letter of name is 'a'
- 5. Display the detail of all loans where LAmount is in the range of 1580000 and 1700000 (both are inclusive)

b) [5]

- 1. What is join?
- 2. What is the function of having clause?
- 3. What is column alias?
- 4. What is the use of Union operation?

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5. Differentiate in between the two clause "in" and "between".

Question 3 NOSQL [5]

- 1. Define MongoDB.
- 2. Describe the use of Document Oriented Database.
- 3. What is NoSQL
- 4. Define table constraint used with reference to MongoDB.
- 5. Give two differences in between RDBMS and MongoDB.

Question 4 Number System

[10x1=10]

1	Give one's complement of:	6	Give two's complement of:
	14		25
2	Give the decimal number of the following	7	Convert into its binary:
	octal no:: 235		25.25
3	Convert the following hexa decimal number	8	Give hexa decimal value of decimal number:
	into decimal:		1200
	2BC2		
4	Convert the following binary number into	9	Give binary of the following hexa-decimal:
	octal:		FACE
	10111011		
5	Convert the following binary number into	10	What do you understand by Computer
	Hexa Decimal:		Codes?
	1100110011		

Question 5 Database concepts and List

[5+5=10]

a)

[5]

- 1. What is the cartesian product? How it is calculated?
- 2. What is the degree and cardinality of a table?
- 3. Define the term foreign key.
- 4. Observe the table and name the column which is most appropriate column for primary key and for the candidate key.

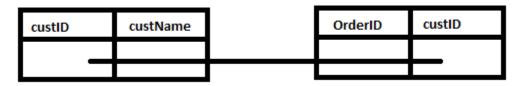
Stationery

Code	Item	Qty	Price
101	Pen	45	6
102	Pencil	40	3
105	Stapler	35	8

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5. Look at the figure given below:



Name the relationship from left to right and from right to left

b) [3+1+1]

1. Write a program to create a list with the following numbers 5,7,3,8,2,9,2,3,1

Now accept a value from the user and check how many times that value comes in a list. If a user enters 2 then the output should be: value comes 2 times

- 2. Write a statement to show sum of all odd numbers in a list [1,2,3,...100] with one line code
- 3. Give example of the use of append method in the list.

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