INDIAN SCHOOL SOHAR
UNIT TEST (2015-16)
INFORMATICS PRACTICES (065)

Class: XI   **Marks: 50**
Date: 13 May, 2015   **Time: 2 Hours**

Instructions:
   (i)   All questions are compulsory.
   (ii)   Answer the questions after carefully reading the text.

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1.   Answer the following questions:

   i)   How does a database control inconsistent data?   2

   ii)   Expand the terms: LAMP, BLOB   2

   iii)   What is the purpose of DISTINCT clause in a query?   2

   iv)   What is a RELATION? What is the difference between a TUPLE and an   2
           ATTRIBUTE?

   v)   What is a DBMS? List any three advantages of using a DBMS.   2

   vi)   Which operators are used in MySQL for specifying a condition: 2
              i) based on a range   ii) based on a list

   vii)   List the different categories of SQL commands.   2

   viii)   Explain SUBSTR() function.   2

   ix)   In a Student table, out of RollNumber, Name and Address which column can be   1
           set as Primary Key and why?

   x)   a)   _____ is used to substitute NULL values in the output of a query.   1
              b)   _____ is a text that is not executed and is used only for
                   documentation.

2.   Create table TEACHER on the basis of structure given below: 2

Field	Datatype	Constraint
TNo	Char(4)	Primary Key
TName	Varchar(20)	Not Null
Age	Int(2)	
Dept	Varchar(15)	
Sal	Int(5)	
DOJ	Date	

3.   Write SQL commands for the following on the basis of information given below:
     Table: TEACHER

TNo	TName	Age	Dept	Sal	DOJ
T001	Jugal	34	Computer	25000	2001-01-01
T002	Sharmila	31	History	20000	2003-10-10
T003	Sandeep	32	Maths	24000	2004-05-09
T004	Rakesh	42	Hindi	25000	2009-02-12
T005	Shyam	50	Chemistry	30000	2008-06-08
T006	Garima	44	NULL	25000	2009-11-26

i)   Insert a new row into the table: T007, Ravina, 45, Maths, 2014-05-22   1

ii)   Show details of teachers of Maths & Computer department   1

iii)   List details of teachers whose name start with 'S' and has 'm' as last character   1

iv)   List teachers with age not in the range 30-40 but getting salary more than 25000   1

v)   Show various departments   1

vi)   Display No, Name and Joining date of teachers who joined in the year 2009   1

vii)   Show No and Name of teachers whose department is unknown   1

viii)   List details of teachers in increasing order of department   1

ix)   Show teachers who are either working in Computer department or are getting a   1
        salary less than 30000

x)   List the departments which start with 'C' or 'H'   1

xi)   Insert a new row into the table: T008, Piyush, 34, History, 25000, 2015-2-15   1

xii)   Show the Names of teachers joined with first 5 characters of their departments   1

xiii)   Display Name and Position of 'a' in names of all teachers   1

xiv)   List No, Name in uppercase and job in lowercase of all teachers   1

xv)   Display name, salary, incentive(20% of sal) of all the teachers   1

xvi)   List the teachers whose age is more than 45 years and are working in Computer   1
        Science department.

xvii)   List the teacher no. of all teachers who have 6 characters in their names.   1

xviii) List the details of teachers not teaching in Chemistry department.   1

xix)   List the teachers whose name does not end with an 'a'.   1

xx)   Display the position of 'is' in the department.   1

4. Find the errors (if any) in the following SQL commands and rewrite the corrected code:

    i)   Select UpperCase("IPXI");   1

    ii)   Select Left(Tname,1,3);   1

    iii)   Select SQUARE(2)+5;   1

    iv)   Select MOD((15*3),3);   1

    v)   Select 2+3*9 as New Result;   1

5. Write the output of following queries:

    i)   Select char(99,97,98);

    ii)   Select TName, Dept from Teacher where TName like 'S%' and Dept like '%Y'   1

    iii)   Select Age%5 from Teacher where age>35;   1

    iv)   Select Round(898.988, 2), Round(898.988, -2);   1

    v)   Select 9*7+6%5*2-4 Value;   1

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