

Duration: 2 ½ Hours

Max Marks: 75

Note : All questions are compulsory

- Q 1 A** Attempt any Two sub questions from a),b) & c) in MS-Excel **2**  
**(True or False )**  
**a** A group of cell is called a domain  
**b** Absolute cell referencing uses two \$ signs  
**c** A function must have at least one argument
- B** Attempt any Two sub questions from d),e) and f) in My SQL **2**  
**(Multiple Choice )**  
**d** The statement used to perform queries on tables begin with \_\_\_\_\_  
 1) Select                      2) Search                      3 ) Query                      4 ) Selection  
**e** The function used to join the word is \_\_\_\_\_  
 1) Concat()                      2) Merge()                      3) Join()                      4) Move()  
**f** To indicate that there should be 6 integers and 2 decimal position we use \_\_\_\_\_  
 1) Decimal (6,2)    2) Decimal (8,2)    3) Decimal (2,6)    4) Decimal (2,8)
- C** Attempt any Six sub questions from g),h),i),j),k),l),m),n), and o) in Data Communication ,Networking and Internet **6**  
**( True or False )**  
**g** Dial up connection requires a modem and a phone call  
**h** More than one file can be attached with an email  
**i** Protocol is not necessary for data communication  
**j** OSI is a network Protocol  
**k** Meta search engine creates its database of information  
**l** One cable is used in Bus topology  
**m** Wireless connection use Radio and infrared signals  
**n** A metropolitan area network can connect several LANs  
**o** Internet explorer is a web browser
- D** Attempt any Five sub questions from p),q),r),s),t),l),u),v), and w) in Data Communication ,Networking and Internet **5**  
**(Multiple Choice)**  
**p** Of the following \_\_\_\_\_ is not a protocol  
 a) TCP                      b) IP                      c) FTP                      d) OSI  
**q** SMTP means \_\_\_\_\_  
 a) Some mail transport point                      b) Single Mail transfer protocol                      c) Simple Mail Transfer Protocol                      d) None of these  
**r** In which of the following data is transmitted using lively beam of light  
 a) Fiber Optic Cable                      b) Coaxial Cable                      c) Twisted pair cable                      d) `Satellite  
**s** The way in which computer are arranged physically is called  
 a) Network                      b) Bridge                      c) Router                      d) Topology  
**t** \_\_\_\_\_ is the central device used star topology  
 a) Router                      b) Bridge                      c) Hub                      d) Modem  
**u** In \_\_\_\_\_ maximum number of cables used  
 a) Bus                      b) Star                      c) Ring                      d) Mesh  
**v** The large collection of websites available on the internet is \_\_\_\_\_  
 a) URL                      b) WWW                      c) Blog                      d) Email  
**w** \_\_\_\_\_ Allow user to search simultaneously on several search engine  
 a) Server                      b) Browser                      c) Meta Search engine                      d) Google

- Q 2 A** Attempt any one sub questions from a) & b) in Data Communication ,Networking and Internet 8
- a** Explain the different uses of Internet.
- b** Define Topology. Explain Bus topology.
- B** Attempt any one sub questions from c) & d) in Data Communication ,Networking and Internet 7
- c** Explain Blog and Search Engine.
- d** What is hacking and explain any three types of hackers.
- Q 3 A** Answer any one sub question from a) and b) in My SQL 8
- a** Write MySQL statement to create a Table name: UNIT\_SALES  
Salesman Id(SID, Integer Primary Key , Not Null ), Product name(PName Variable length of character 30), no. of units to be supplied(Qty\_units Integer),date of supply (DOS, Date), store no (S\_No integer).
- b** Write MySQL statement to create a table called CLASS contains  
Columns in the table: Admission number (ADM\_NO , Integer, Primary key),first name (FNAME, character(15), Last name (LNAME, character(15)),Date of birth(DOB,date), marks in HSC(HSC\_MARK,Integer), gender (GEN ,Boolean),
- B** Answer any one sub question from c) and d) in My SQL 7
- c** There exists a table called Emp containing the columns EMP Number ENO, integer, Primary Key), Name (NAME, character variable width 20), Date of birth (DOB, Date), Gender (GENDER, character width 1) and Department (Dept, character variable width 4).  
Write MySQL statements for the following.
- i) Display the structure of the table.
- ii) Display all the information from the table.
- iii) Add a new column Salary( Sal , decimal(7,2) at the end of the table
- iv) Delete the row where Emp number of the emp is 1001.
- v) Change the Department of emp with Empno 1004 to Admin
- vi) Rename the table Emp to Employee
- d** Explain the following inbuilt function in My SQL
- 1) NOW()      2) TIME()      3) CURDATE()      4) DAYNAME()  
5) ROUND()      6) SQRT      7) ABS()
- Q 4 A a** Answer any one sub question from a) and b) in My SQL 8
- There exist a table TAX containing columns Pan Number (PAN, Integer), name (NAME, variable character), City (CITY character),Taxable Income(INC,Integer) and Income Tax(ITAX,Integer)
- Write MySQL queries for the following
- i) Display Pan Number , Name and Income Tax
- ii) Display Pan Number , Name and Income Tax where taxable Income is more than the Average Taxable
- iii) Display City, maximum and minimum Taxable income group by city
- iv) Display Pan Number , Name and taxable Income where income tax is equal to the highest Income Tax
- v) Display all the rows where name contains 'B'

- b** There exist a table FLIGHT having columns flight number (FNO, integer), destination name (DEST, character), Stopover name (STOP, character), and amount of the ticket (AMT, integer)  
Write MySQL queries for the following
- Display flight number, destination name and amount collected for the stopover Dubai.
  - Display flight number, destination name and stop over name where amount collected is above average amount collected.
  - Display all the rows from the table in ascending order of stop over and descending order of amount collected
  - Display flight number and destination name group according to stop over names

**B** Answer any one sub question from c) and d) in My SQL

7

- c** There exist a table STAFF with columns Employee ID (E\_ID, integer), employer name (ENAME, character), department ID (DID, integer) manager id (MGID, integer), salary (SAL, numeric) and hiring date (HDATE, date)  
Write MySQL queries for the following:
- Display all the rows from this table
  - Display the name and hiring date of all the employees who do not have manager
  - Display employer name as employee name (EMPNAME) from the table
  - Display employee ID, department ID and salary of the employees whose manager ID is 102 or 105
  - Display the employee ID employee name and salary of the employees whose salary is greater than 15000
- d** There exist a table examination containing columns exam seat number (ESNO, integer), name of the student (SNAME, variable character), gender (GEN, character), marks (MKS, numeric) and grade (GRADE, character)  
Write MySQL queries for the following
- Display all the rows where the grade is B
  - Display seat number, name and marks of students whose marks are equal to lowest marks
  - Display seat number, marks and grade of students whose marks are above average marks
  - Display gender, minimum marks and maximum marks of students grouped by grades

**Q 5 A** Answer any one sub question from a) and b) in MS- EXCEL

8

- a** The following data has been entered in a worksheet.

	A	B	C	D
1	<b>Name</b>	<b>Age</b>	<b>City</b>	<b>Sales</b>
2	Anita	41	Mumbai	320000
3	Anish	24	Delhi	200000
4	Rita	35	Surat	205000
5	Rushabh	42	Chennai	302000
6	Alex	50	Mumbai	540000
7	Eliza	44	Pune	320000
8	Mahesh	27	Mumbai	501000
9	Neeta	32	Nashik	520000

Write the steps to -

- 1) Sort the data in the ascending order of Name
  - 2) Calculate subtotal of sales for each city.
- b** The following spread sheet contains the amounts invested, the rate of interest and the period of investment in years. Write the steps to obtain the simple and compound interest in columns C and D.

	A	B	C	D
1	<b>Name</b>	<b>Amount</b>	<b>S.I</b>	<b>C.I</b>
2	Ravish	500000		
3	Dev	250000		
4	Aabha	190000		
5	Annie	560000		
6	Number of years (n)	10		
7	Rate of Interest (r%)	8		

Given that, Simple Interest (S.I) =  $(p*n*r)/100$

Compound Interest (C.I) =  $p*(1+r/100)^n - p$

**B** Answer any one sub question from c) and d) in MS- EXCEL

7

- c** Answer the following using spreadsheet giving the runs scored by batsman in 5 matches.

	A	B	C	D	E	F	G	H
1	<b>NAME</b>	<b>Match1</b>	<b>Matc2</b>	<b>Match3</b>	<b>Match4</b>	<b>Match5</b>	<b>TOTAL</b>	<b>AVG</b>
2	Sachin	76	78	98	54	115		
3	Ganguly	45	56	54	45	12		
4	Kapil	36	85	56	89	65		
5	Dravid	59	45	54	25	78		
6	Kumble	45	25	12	14	58		
7								
8	<b>HIGHEST SCORE</b>							
9	<b>LOWEST SCORE</b>							

Write the steps to

Calculate

- 1) Total and Average score in column G and H.
  - 2) Match-wise calculate the Highest and the lowest score in row 8 and 9.
- d** Explain the following built in functions in MS-EXCEL

- |             |                  |            |            |
|-------------|------------------|------------|------------|
| 1. IPMT ( ) | 2. ROUNDDOWN ( ) | 3. SQRT()  | 4. COUNT() |
| 5. FLOOR()  | 6. PV ( )        | 7. MOD ( ) |            |