

- v TCP stands for Transmission \_\_\_\_\_ Protocol  
a) Combine                      b) Control                      c) Connect                      d) Call
- w The dial up account is the \_\_\_\_\_ internet access account  
a) Fastest                      b) Slowest                      c) Superfast                      d) google
- Q 2 A Attempt any one sub questions from a) & b) in Data Communication ,Networking and Internet 8  
a Write short note on      1) Bus Topology                      2) Star Topology  
b Explain various types of Computer Networks.
- B Attempt any one sub questions from c) & d) in Data Communication ,Networking and Internet 7  
c Explain HUB and SWITCH used in networking.  
d Explain the different use of internet..
- Q 3 A Answer any one sub question from a) and b) in My SQL 8  
a Write statement in MySQL to create a table called DONATION containing columns IDNumber(DNO,integer,primarykey),name(NAME,character with width 20),Amount(AMT,integer), Date(DT,Date) which should not be empty  
b Write statement in MySQL to create a table called ACCOUNT containing columns Account Number ( ANO,integer,primary key),Account holder name(NAME,Character with width 25),Gender (GEN,Boolean),types of account(TYPE, Character with width 25),Balance(BALANCE,very large)
- B Answer any one sub question from c) and d) in My SQL 7  
c Explain the following in built function in My SQL  
1) UPPER ()      2) MID(str,len)      3) Date()      4) DAYNAME()  
5) MOD(x,y)      6) SQRT()      7) MAX()  
d There exist a table called SALARY containing the column Employee number(ENO,integer, primary key),Name(ENAME,character),date of birth(DOB,date),Gender(GEN,character with width 1) and salary (SAL,5 integer and 2 decimal places)  
Write MYSQL statement for the following  
i) Display the structure of the table SALARY  
ii) Add a new column date of joining (DOJ,Date ) at the end of the table  
iii) Rename the column DOB to DBT  
iv) Change the size of the column SAL to 6 integer and 2 decimal  
v) Increase the salary of all employee by 1000  
vi) Delete the row where employee no is 48  
vii) Rename the table SALARY as SAL
- Q 4 A Answer any one sub question from a) and b) in My SQL 8  
a There exist a table called RAIL containing the column Station name (SNO, integer), Station Name (SNAME, character), Amount collected (AMT, Numeric) Write MySQL statement for the following  
i) Display station number, station name, and amount collected  
ii) Display station number, station name whose amount collected is below the average amount collected  
iii) Display station number, maximum and total amount collected from station grouped

by station name.

- iv) Display station number whose amount collected is equal to the highest amount collected
- v) Display all the rows from this table in the ascending order of amount collected

- b** There exist a table called BOOKS containing the column Accession number (ASNUM, integer, primary key), book Name (NAME, character), Author Name (Author, Character) and number of pages (NUM, integer), There exist another table ISSUE containing the column student number (SNUM, integer), Accession number (ASNUM, integer, primary key) and date of issue (DOI, date) .

Write MySQL statement for the following

- i) Display book name, author name, and date of issue for books having more than 300 pages using both the tables.
- ii) Display book name, student number, accession number and date of issue for books issued before September 1,2016. using both the tables
- iii) Display book name, author name and number of pages from the table BOOKS for those books where the number of pages is equal to the average number of pages.
- iv) Display book name, student number, accession number in the alphabetical order of books name from the table BOOKS.
- v) Display student Number, accession number and date of issue for all the rows from the table ISSUE where students number is between 21 and 30

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

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- c** There exist a table SPECIALIZATION with columns roll number (RNO, integer), name of the student (SNAME, Character), subject offered ( SUB, character) and marks obtained in TY BCom examination (MARKS, integer)

write MySQL queries for the following:

- i) Display all the rows in ascending order of roll numbers and descending order of marks and
- ii) Display all the rows from the table
- iii) Display all the rows where the subject offered is advertising
- iv) Display all the rows which contains 'sa' anywhere in the name of the student
- v) Display roll number and name of the student in alphabetical order of the names

- d** There exist a table EXAMINATION containing columns exam seat number (ESNO, integer), name of the student(SNAME, character), gender (GEN, character), marks (MKS, numeric) and grade (GRADE, character)

Write MySQL queries for the following

- i) Display all the rows where the grade is B
- ii) Display seat number, name and marks of students whose marks are equal to to lowest marks
- iii) Display seat number, marks and grade of students whose marks are above average marks
- iv) Display gender, minimum marks and maximum marks of students grouped by grade

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

a The following data has been entered in a worksheet.

|   | A      | B        | C          | D      |
|---|--------|----------|------------|--------|
| 1 | Emp.No | Emp.Name | Department | Salary |
| 2 | 555    | Arham    | HR         | 40000  |
| 3 | 232    | Sarah    | Admin      | 65000  |
| 4 | 254    | Sachin   | HR         | 32000  |
| 5 | 365    | Peter    | Sales      | 32000  |
| 6 | 999    | Manoj    | HR         | 45000  |
| 7 | 666    | Sanket   | Admin      | 54000  |

Write step to

- 1) Create a pivotal table showing the highest salary department wise in column E
- 2) Create a pivotal table showing Average salary department wise in column H

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 | Name                  | Amount | S.I | C.I |
| 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) =  $p*(1+r/100)^n - p$

Where P = Amount , R= rate of interest N= No of years

B Answer the following using spreadsheet

c Consider the following worksheet in MS- EXCEL

|   | A      | B      | C   | D  | E     | F   |
|---|--------|--------|-----|----|-------|-----|
| 1 | Name   | Basic  | HRA | DA | Total | Tax |
| 2 | Arham  | 30000  |     |    |       |     |
| 3 | Sarah  | 20000  |     |    |       |     |
| 4 | Sachin | 221000 |     |    |       |     |
| 5 | Peter  | 25000  |     |    |       |     |
| 6 | Manoj  | 60000  |     |    |       |     |

Write step to find

- 1) HRA as 25% of basic or 10,000 whichever is less in column C
- 2) DA as 110% of basic rounded to the nearest integer in column D
- 3) Total as Basic + HRA +DA in column E
- 4) Tax as 33.33% of Total in column F

d Explain the following function in MS- EXCEL

- 1) PV()
- 2) ROUNDUP()
- 3) MAX()
- 4) ABS()
- vi) COUNT()
- 6) NPER()
- 7) MOD()

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[TIME: 3 HRS]

[MARKS:100]

N.B:

1. All questions are compulsory
2. Figures to the right indicate full marks

**Q1 A. Complete the following statements by selecting the appropriate answers (Any Ten) 10**

- i. A manager who is required to perform duties that are symbolic and ceremonial in nature is called \_\_\_\_\_
  - a) resource allocator
  - b) negotiator
  - c) spokesperson
  - d) figurehead
- ii. When a manager has the ability to work with, understand and motivate other people or groups he has \_\_\_\_\_ skills.
  - a) human
  - b) technical
  - c) conceptual
  - d) intergroup
- iii. The study of people in relation to their social environment or culture is called \_\_\_\_\_
  - a) Psychology
  - b) Social Psychology
  - c) Anthropology
  - d) Sociology
- iv. The emotional or feeling component of an attitude is called its \_\_\_\_\_ component.
  - a) behavior
  - b) motive
  - c) affective
  - d) cognitive
- v. \_\_\_\_\_ is the individuals involvement with, satisfaction with and enthusiasm for the work he does.
  - a) Organizational Commitment
  - b) Psychological Empowerment
  - c) Perceived Organizational Support
  - d) Employee Engagement
- vi. The \_\_\_\_\_ response means passively but optimistically waiting for conditions to improve.
  - a) Exit
  - b) Voice
  - c) Loyalty
  - d) Neglect
- vii. Social, esteem and self-actualization are known as \_\_\_\_\_ needs
  - a) basic
  - b) intermediate
  - c) higher order
  - d) lower order