

- Q 2 A** Attempt any one sub questions from a) & b) in Data Communication ,Networking and Internet **8**
- a** Write short notes on (i) HUB (ii) Co-axial Cable
- b** What is data communication? Explain different components of data communications system?
- B** Attempt any one sub questions from c) & d) in Data Communication ,Networking and Internet **7**
- c** Explain the following:(i) Web Browser (ii) Hot Spot
- d** What is Cyber Crime? What are the different types of Cyber Crimes?
- Q 3 A** Answer any one sub question from a) and b) in My SQL **8**
- a** Write MySQL statement to create table employee personal detail (EMP_PERSONAL). Columns in the table: Employee no.(Emp_no INT Primary key),residential address(Addr variable length of character 10, phone number(Ph_no character(10), mobile number(Mobile Character 10),Marital status(Marital_StatusEnum (Y/N)),spouse name(Spouse Variable length of character 5);
- b** Write MySQL statement to create a table Library Columns in the table: : Admission number (Adm_noInt Primary key Auto Increment, Book name (Bookname character 50), accession no(Acc_no Int), date of issue(Dtofissue Date), authors name (Auther Character 20), Number of Pages (Pages Int).
- B** Answer any one sub question from c) and d) in My SQL **7**
- c** There is a table Pay_acnts where e_id is employee identification no.,fname and lName are first and last names, desig his designation ,dob is date of birth ,join_date is date of joining and basic is Basic pay
There is a table Pay_acnts where e_id is employee identification no.,fname and lName are first and last names, desig his designation ,dob is date of birth ,join_date is date of joining and basic is Basic pay
Write queries to perform the following:
- i)** To display employee idn,first name,last name and department of those in sales department.
- ii)** To display employee idn,firstname,last name and department of those in sales department in the alphabetical order of first name.
- iii)** To display employee idn,firstname,last name and basic of those whose basic is less than 10000.
- iv)** To display first name,last name and department of those where first name begins with the letter „a“.
- v)** To display first name,last name and department of those in sales department and first name begins with the letter “A”.
- d** Explain the following inbuilt function in My SQL
- 1)CONCAT() 2) LOWER() 3) DAYNAME() 4) TRIM()
5) LTRIM() 6) POW() 7) MID()
- Q 4 A** Answer any one sub question from a) and b) in My SQL **8**
- a** There exists a table INTERNET having column identification number (ID, integer), customer name (CNAME, character), address (ADDR, variable character), type of connection (TOC, character) and units consumed (UNITS, integer).
Write MySQL queries for the following
- i)** Display all the rows in the descending order of units consumed
- ii)** Display all the rows when the units consumed are above 200
- iii)** Display identification number, name and units consumed where the units consumed are below the average units consumed
- iv)** Display a customer's name, address and units consumed where the units consumed are equal to the highest units consumed
- v)** Display type of connection and total number of such connections are grouped by type of connection

- b** There exists a table DEPARTMENT containing columns employee number (ENO, integer), employee name (ENAME, Character), Salary (SAL, 4 integer and 2 decimal places). There exists another table BRANCH containing the columns employee number (ENO, integer) gender (GEN, character) and date of joining (DOJ, date).
write MySQL statements to
- Display the employee name and gender from these tables.
 - Display employee numbers, employee name and date of joining from this table for those employees whose salary is above 45000
 - Display employee number, employee name gender and date of joining from this table for those employees whose date of joining is after April 10 2021
 - Display the structure of the table DEPARTMENT
 - Display the name and salary from the table DEPARTMENT

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

- 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:
- Display all the rows in ascending order of roll numbers and descending order of marks and
 - Display all the rows from the table
 - Display all the rows where the subject offered is advertising
 - Display all the rows which contains 'sa' anywhere in the name of the student
 - Display roll number and name of the student in alphabetical order of the names
 - Display all the rows where the marks obtained are 50 or more
 - Display roll number name and subject offered where roll numbers are below 50
- d** There exist a table COMPANY Containing columns Identity Number(ID, integer), name of the worker (NAME, character), department name (DEPT, character), provident fund (PF, numeric) and date of salary (DOS, date).
Write MySQL queries for the following
- Display the department name, minimum provident fund amount and total provident fund amount grouped as per department
 - Display all the rows where identity number is divisible by 3
 - Display the department name, average of PF amount and maximum of the PF amount grouped as per department
 - Display the identity number, name of the employee and PF amount where the PF amount is below average PF amount

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	E	F	G
	NAME	BASIC	HRA	DA	GROSS	TAX	NET
1	NISHA	35000					
2	ASHA	18000					
3	USHA	24000					
4	DIKSHA	32000					
5	RAKSHA	30000					

Write the steps to obtain

- HRA as 30% of the Basic or 10,000 whichever is less in column C
- DA as 50% of the Basic in column D.
- GROSS as BASIC+HRA+DA in column E.
- TAX as 10% of GROSS in column F.
- NET=GROSS-TAX in column G.

b For the following spreadsheet

Write steps to create report of class wise highest percentage, lowest percentage, and average percentage

	A	B	C	D
1	ROLL NO	NAME	CLASS	PERCENTAGE
2	34	DARSHIT	FY	54
3	78	AMAN	SY	87
4	45	MALHAR	FY	63
5	12	KARISHMA	TY	80
6	15	SRIDEVI	TY	72
7	24	JOHN	SY	66
8	91	AKBAR	FY	48

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

c The following data has been entered in a worksheet

	A	B	C	D
1	Item	Purchase Price	Qty	Profit Amt
2	Computer	5000	10	
3	Monitor	4000	8	
4	Printer	3000	2	
5	Keyboard	1000	6	
6			Total Profit	
7	Profit (%)	5		

Write the steps to find

- 1 Profit amount in column D
- 2 Total profit in cell D6.

d Explain the following built-in functions in MS-EXCEL

- 1 PPMT()
- 2 INT()
3. ABS()
- 4.ROUND()
- 5.FV()
6. CEILING()
7. MAX()