		Total Marks: 75	
Time: 2½	Hour	s	
		ions carry equal marks and are compulsory.	(2)
Q1. (A)	(a)	Attempt any two sub-questions from (a), (b),(c) in spinore (True/False)	
	(b) (c)	There are two types of centremary of the data.  A pivot table is a dynamic summary of the data.	(2)
(B)		Attempt any two sub-questions from (d), (e),(f) in MySQL (Multiple Choice)  To indicate that there should be 5 integers and 2 decimal positions we use  iv)DECIMAL(2,7)	
	(d)	DECIMAL(7,2) Injury another query it is termed as a	
	(e)	i) Mini query ii) Net query	
	(f)	i) Ending with R ii) Starting (11) (2) (3) (4) (1) (m) (n) (0)	(6)
(C)	(g)	in Data Communications, Network place without a protocol.  The data transmission can take place without a protocol, and the server.	
	(h)	In client server architecture, all resources are conditioned by In ring topology failure of one node will not affect the functioning of the	
	(i)	network. distances than twisted -pair cable.	
	(j) (k)	A bridge is a device using which we can segment a more efficient networks.	
	(1)	IP addresses are easier to remember.	
	(m) (n) (o)	Emails cannot be sent with attachments.  Vishing uses VoIP to make a phishing attack.	
(D)	(0)	Attempt any <i>five</i> sub-questions from (p),(q),(r),(s),(t),(u),(v),(w)	(5)
	(p)	Anetwork spans a number of cities and country iv) None of these	
	(q)	The transmission medium that carries the message is referred to as the  The transmission medium that carries the message is referred to as the  The transmission medium that carries the message is referred to as the  The transmission medium that carries the message is referred to as the  The transmission medium that carries the message is referred to as the	
	(1)	i) Bus ii) Ring iii) Star iv) None of these	
	(s)	POP stands for  i) Post Office Protocol  ii) Post Operate Protocol  iv) None of these	
	(t)	As the data packet moves from upper layers to lower layers, neaders are  i) Added  ii) Rearranged  iii) Deleted  iv) Modified	
	(u)	The activity of updating a blog is called  i) Blogging ii) Blogger iii) Presenter iv) Hacking	
74127		Page 1 of 5	

		(v) (w)	An IP address is made up of	i) Alta Vista bits. )16	iv) Yahoo iv) 8	
Q2.	(A)	(a)	Answer <i>any one</i> sub-question from Networking and Internet. Explain i) MAN ii) WAN	(a), (b) in Data (	Communications,	(8)
		(b)	Write a note on Bridge and Router.			
	(B)		Answer <i>any one</i> sub-question from Networking and Internet.	(c), (d) in Data (	communications,	(7)
		(c)	What is electronic mail? State advan	tages and import	ance of e-mail.	
		(d)	Write short notes on sniffing and spo	oofing.		
Q3.	(A)	(a)	Answer any one—sub-question from Write MySQL statement to create a t Employee Number (ENO, integer, I character with variable width 25 colu (DO), Date) and Salary (SALARY, wid 18000).	table called PAYF Primary key), Er Imns, should not l	OLL having the columns mployee Name (ENAME, be empty), Date of Joining	(8)
		(b)	Write MySQL statement to create columns Donor Identity Number (I (DNAME, character with width 20 character with variable width 15 co not negative), Date of Donation (DT,	DNO, Integer, Pri columns), Donor lumns), Amount	mary key), Donor Name Email Address (DEmail,	
	(B)		Answer any one sub-question from	(c), (d) in MyS0	ζĽ	(7)
		(c)	Explain the following built-in function 1)UPPER() 2)LTRIM() 3) F	RIGHT()	4) DATE()	
			5) ROUND() 6) POW() 7) N	MONTHNAME()		
		(d)	There exists a table FLIPKART havi integer), Customer Name (CNAM character), Total Cost (TCOST, integ Write MySQL statements for the follow	E, character), I er) and Date of P	Product Name (PNAME,	
			i) Display the structure of the table I ii) Enter the following one row of da  CNO CNAME PNAME  1001 ADITYA Realme2Pr iii) Delete the row where Customer iv) Add a new column Discount (DISC v) Change the Product Name to NOK vi) Change the size of the column CN vii) Rename the table FLIPKART as i	ta in this table.  TCOST PUR 0 9000 201 number is 950. C, integer) at the class for Customer IAME to 25 columns.	9-04-10 end of the table FLIPKART name "Ramesh Shah".	

Q4	4. (A	a) (a)	Answer any one sub-question from (a), (b) in MySQL There exists a table GOAIR having the columns Flight Number (FNO, integer), Destination Name (DNAME, character), PRN Number (PRN, integer), Fare Amount (FARE, numeric). Write MySQL statements for the following. i) Display Flight Number, Destination Name and Fare Amount from this table. ii) Display Flight Number and Fare Amount for the records where Fare Amount is below the average Fare Amount. iii) Display PRN Number, Destination Name for the records where Fare Amount is equal to the Highest Fare Amount. iv) Display Destination Name, maximum Fare Amount and total Fare Amount from the table for each Destination Name. v) Display all the rows from this table in the descending order of Fare Amount.	(8)
		(b)	There exists a table ABPCOLLEGE containing columns Roll Number (RNO, integer, primary key), Name (SNAME, character), Class (CLASS, character). There exists another table RESULT containing columns Roll Number (RNO, integer, primary key), Total marks (TOTAL, integer), Percentage (PERCENTAGE, integer) and Grade (GRADE, character). Write MySQL statements for the following.  i) Display Name, Class, Total marks and Grade of a student with Total Marks more than 560 using both the tables.  ii) Display Name, Class and Grade of students getting "O" Grade using both the tables.  iii) Display Roll number and Total marks of students who have scored more than average Total Marks using table RESULT.  iv) Display Roll Number and Name of students whose Roll Number is divisible by 7 using table ABPCOLLEGE.  v) Display all the records from the table ABPCOLLEGE of the class "T.Y.B.COM."	
Q4.	(B)		Answer any one sub-question from (c), (d) in MySQL	(7)

(a) Answer any one—sub-question from (c), (d) in MySQL

(b) There exist a table called BATAS containing columns Employee Name (ENAME, character), Department Name (DEPT, character), Date of Joining (DOJ, date), Salary (SALARY, numeric) and Age (AGE, integer).

Write MySQL statements for the following:-

- i) Display Department Name, total salary and average Salary for each Department.
- ii) Display Date of Joining, minimum and maximum of the Salary as per date of Joining.
- iii) Display all the rows where the Salary is equal to maximum Salary.
- iv) Display Employee Name, Department Name and Salary where Age is more than 55.

- (d) There exists a table TAX having the columns Permanent Account Number (PAN, integer), Name (NAME, character), City (CITY, character), Taxable Income (INC, integer) and Income Tax (ITAX, integer).
  - Write MySQL queries for the following.
  - i) Display all the rows from this table where the first letter in the Name is 'U'.
  - ii) Display all the rows from this table in the descending order of Taxable Income.
  - iii) Display the columns Permanent Account number, Name and Income Tax from this table.
  - iv) Display Permanent Account number, Name and Taxable Income from this table where Income Tax is more than 200000.
  - v) Display all the rows from this table.
  - vi) Display the total Income Tax collected from this table and label it as TOTAL TAX.
  - vii) Display Name, City and Taxable Income of the Employee whose name is "Kalpesh Joshi".
- Q5. (A) Answer *any one* sub-question from (a), (b) in MS-EXCEL

  (a) The following data has been entered in a worksheet.

	A	В	C	D	Е
1	FNAME	GENDER	DEPARTMENT	CITY	SALARY
2	NIHAL	М	EXPORT	PUNE	50000
3	GAYATRI	F	ADMIN	MUMBAI	80000
4	RAMYA	F	IT	NASIK	98000
5	SMITH	M	IT	NASIK	70000
6	ALAN	M	EXPORT	PUNE	35000
7	SRUSHTI	F	ADMIN	PUNE	74000
8	POOIA	F	EXPORT	MUMBAI	65000
9	SAIF	M	ADMIN	PUNE	63000
10	PRANAV	M	ADMIN	MUMBAI	78000

Write the steps to create a Pivot table showing the average salary and maximum salary department wise in column G.

(b) In the following worksheet the cost of machinery is entered in cell B2, number of years is entered in B3 and rate of depreciation is entered in cell B4

	A	В	C	D	E	F
1				YEARS	DEP	WDV
2	COST	1000000		1		
3	YEARS	6		2		
4	RATE	12%		3		
5				4		
6				5		
7				6		

Write steps to obtain the year wise depreciation DEP and written down value WDV in columns E and F respectively where depreciation is computed using reducing balance method.

(8)

## Paper / Subject Code: 23120 / Computer systems & Applications Paper -I

Answer any one sub-question from (c), (d) in MS-EXCEL Q5. (B) (c) The following data has been entered in a worksheet:

(7)

	Δ	В	C	D	Е
1	NAME OF SALESMAN	SALES	COMMISSION	ADDITIONAL COMMISSION	TOTAL COMMISSION
2	Shantanu	58000			
3	Vijay	23800			
4	Bhavana	56000			
5	Karan	72300			
6	Shiv	64200			
7	Poornima	28000			

Write the steps to calculate

- i) Commission at the rate of 15%.
- ii) Additional Commission at the rate of 20% or Rs.5000 whichever is maximum.
- iii) Total Commission = Commission +Additional Commission.
- (d) Explain the following built in functions in MS-EXCEL

1. PV() 2. NPER()

3. PPMT()

5.MIN()

6.ABS()

7. ROUNDDOWN()