T	ime: 2	2½ Hoı	ırs			Total Marks: 75				
N	ote: 1	) All qı	ıestions carry equal m	narks and are com	pulsory.		2.5.6 2.6.6.6.			
	2)	) Figur	es to the right indicate	e maximum marks	for a question.					
Q1	(A)		Attempt any <i>two</i> s (True/False)	ub-questions from	ı (a), (b),(c) in M	S-EXCEL	(2)			
		(a) (b) (c)	More than one cell continuous cells Pivot table report is	can be selected in						
	(B)		Attempt any <i>two</i> s (Multiple Choice)	ub-questions from	ı (d), (e),(f) in M	ySQL	(2)			
		(d)	To display column no 1) USE	ames, type, defaul 2)DESCRIBE			200			
		(e) Two tables can be joined with the help of								
			1) ROLL BACK	2) COMBINE	3) INNER JOIN	4) GROUP BY				
		(f)	The statement used 1) Query	to perform querie: 2) Search	s on table begins 3) Selection	with 4) Select				
	(C)		Attempt any <b>six</b> sulin Data Communicat				(6)			
		(g)	A network can be us							
		(h) (i)	Blogs are used to bl In a client server bas processing and stora	ed network indivi	dual computers	or nodes share the				
		(j)	Coaxial cable uses lig		a. 7 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					
		(k) (l)	TCP/IP protocol has A hub sends signals		ie network					
		(m)	More than one devic			the Internet.				
		(n)	A central hub is required in bus topology.							
		(0)	Network sniffers monitors data flowing over computer network links.							
	(D) Attempt any <i>five</i> sub-questions from (p),(q),(r),(s),(t),(u),(v),(w) in Data Communications, Networking and Internet. (Multiple Choice)						(5)			
		(p)	LED is used as a sour	rce of light in	transmission	media.				
			1) Twisted pair	2) Coaxial cable	3)Microwave	4) Fiber optic cable				
		(q)	is a me 1) Google	ta search engine. 2) Dog pile	3) Alta Vista	4) Yahoo				
	7. 7. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	(r)	topology req	uires a central cor 2) Ring	ntroller or hub. 3) Star	4) All of these				
		(s)	The protocols of FTF 1) Application	P, SMTP & HTTP ar 2) Transport	re contained in th 3) Internet	layer of TCP. 4) Modem				

		(t)	The rules for exch 1) Interconnection	~ ~	veen computers are 3) Modulation	e called 4) Protocols		
		(u)	1) POP protocol i	s used to send er 2) SMTP	nail. 3) HTTP	4) IP		
		(v)	Domain name 1) .in	is used for o 2) .edu	commercial organiz 3) .org	zations. 4) .com		
		(w)	The full form of All 1) Asymmetric	DSL is	Digital Subscriber 2) Asympto			
			3) Assembly		4) Applied			
Q2.	(A)	(a)	Networking and In	nternet.	m (a), (b) in Data	Communications,	(8)	
		(a) (b)	Write short notes on (i) Hub (ii) Router.  What is computer network? Explain its advantages.					
		(-)	-			28247425 8244542555		
	(B)		Answer <i>any one</i> Networking and In		om (c), (d) in Data	Communications,	(7)	
		(c)	Explain cybercrim	VARIATORN A VAR	ercrimes in brief.			
		(d)	Write short notes	on (i) Search En	gine (ii) Email.			
Q3.	(A)		Answer <i>any one</i>	sub-question fro	m (a),(b) in MyS	OL S	(8)	
		(a)	columns Item nur automatically), Ite	mber (ITEMN <mark>O, 1</mark> em Name (INAMI ce (QTY_BAL, Ni	unique integers sh E, character with va	ORE having the following ould be incremented by 1 ariable width 20 columns) and Unit Price (UPRICE, 5		
		(b)	Write MySQL statement to create a table called DONATION having the column Donors Identity Number (DNO, integer, Primary key), Donors Name (DNAM character with variable width 25 columns, should not be empty), Gender (GB Boolean), Amount Donated (DAMT, 5 integers and 2 decimal places) and Da of Donation (DDT, Date).					
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(B)		Answer <i>any one</i>	sub-question fro	m (c), (d) in MyS	ДГ	(7)	
		(c)	Explain the follow	ing built-in funct	tions in MySQL.			
-			1)UPPER()	2)LENGTH()	3) REVERSE(	) 4) NOW()		
	N. A.V.	1000 B	5) SORT()	6) ROUND()	7) YEAR()			

(8)

(d) There exists a table called STUDENT having the following columns Roll Number (RNO, integer), Student Name (SNAME, character variable width 10), Class (CLASS, character width 15), Division (DIVI, character width 1) and Total Marks Obtained (TOTAL, integer).

Write MySQL statements for the following.

- i) Display the structure of the table STUDENT.
- ii) Insert one row of data in the table having Roll Number 104, Student Name 'MOHAN', Class 'F.Y.B.COM', Division 'G', Total marks obtained 540.
- iii) Change the size of the column SNAME from Variable character (10) to variable character (15).
- iv) Add a new column Gender (Gender, Character with variable width 1) before Class.
- v) For Roll Number 10, change the Students Name to 'Dharmendra Shah'.
- vi) Delete the column DIVI from this table.
- vii) Rename the table STUDENT as STUDENT1.
- Q4. (A) Answer **any one** sub-question from (a), (b) in MySQL
  - (a) There exists a table CUSTOMER having the columns Customer Number (CNO, integer, Primary Key), Customer Name (CNAME, character), Amount due (Amount, 6 integer and 2 decimals) and date of transaction (DT, Date), City (CITY, character).

Write MySQL queries for the following.

- i) Display customer number, amount due and city from this table.
- ii) Display customer number, customer name and amount due where amount due is more than the average amount due.
- iii) Display city, maximum and total amount due grouped by city.
- iv) Display all the rows where amount due is equal to the lowest amount due.
- v) Display the first five rows from this table.
- (b) There exists a table Employee containing columns Employee Number (ENO, integer, primary key), Employee Name (ENAME, character), Gender (GENDER, Boolean) and Designation (Desg, Character). There exists another table PAY containing the columns Employee Number (ENO, integer, primary key), Basic Pay (BPAY, 5 integer and 2 decimal places) and Date of Join (DOJ, Date). Write MySQL queries for the following.
  - i) Display employee number, employee name, gender and basic pay of those employees having basic pay more than Rs.8000 using both the tables.
  - ii) Display employee number, employee name, designation, and date of joining for those employees whose name begins with 'S' using both the tables.
  - iii) Display employee number, basic pay form the table PAY for those employees whose basic pay is above the average basic pay.
  - iv) Display employee number, employee name and designation in the alphabetical order of employee name from the table employee.
  - v) Display employee number, employee name and designation from the table employee where employee number is less than 50.

- Q4. (B) Answer *any one* sub-question from (c), (d) in MySQL
  - (c) There exists a table RAILWAYS containing columns Station Number (SNO, integer), Station Name (SNAME, character), date (DT, date), Amount Collected (AMT, numeric). Write MySQL queries for the following.
    - i) Display the station number, maximum and minimum amount collected grouped as per station number.
    - ii) Display the station number and total amount collected grouped as per station number.
    - iii) Display all the rows where the amount collected is equal to the maximum amount collected.
    - iv) Display the station name, date and amount from this table.
  - (d) There exists a table ADMISSION containing columns Roll Number (SNO, integer), Students Name (NAME, character), Date of Birth (DOB, date), Class (CLASS, character), gender (GENDER, Character) and Fees Paid (FPAID, numeric).

Write MySQL queries for the following.

- i) Display all the rows from this table where name contains 'H'.
- ii) Display all the rows from this table where class is "T.Y.B.Com.".
- iii) Display the student name in upper case and label it as 'Name of the Student' from this table.
- iv) Display the number of female students from this table.
- v) Display all the rows from this table in the descending order of roll numbers.
- vi) Display all the rows from this table where roll number is divisible by 7.
- vii) Display students name, date of birth and class from this table.
- Q5. (A) Answer **any one** sub-question from (a), (b) in MS-EXCEL

(8)

(7)

(a) Answer the following using MS-EXCEL Given the worksheet.

J. J.	A 2 6 2 6	B	C	D
1	NAME	DOJ	DEPARTMENT	SALARY
2	MEHTA	1/12/2010	ACCOUNTS	75000
3	JAIN	3/4/2009	ΥT	50000
4	JAIN	10/10/2008	ACCOUNTS	40000
5	MEHTA	2/4/2011	HR	45000
6	JAIN	11/12/2009	IT	60000
7,5%	PATEL	4/15/2010	ACCOUNTS	90000

Write steps to do the following:-

- i) Arrange data in the alphabetic order of Department and further in the order of seniority.
- ii) Arrange the data in the alphabetic order of NAME and further in the ascending order of SALARY.

(b) For the following spreadsheet obtain the Subtotals of the Fees Course wise.

	A	В	CANA SANTA	DOON
1	NAME	COURSE	MOBILE NO.	FEES
2	VAISHALI	TALLY	9821023012	12000
3	ALPA	BEAUTY THERAPY	3456789215	8000
4	ARUNA	WEB DESIGNING	9845673212	15000
5	POOJA	WEB DESIGNING	8876543939	15000
6	RAHUL	BEAUTY THERAPY	8976765645	8000
7	SUNIL	TALLY	5456677678	12000
8	SANTOSH	TALLY STATES	8798768754	12000

Q5. (B) Answer *any one* sub-question from (c), (d) in MS-EXCEL (7)
(c) For the following spreadsheet

	A A	B	\$ . C \ & \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DATA
1	AMOUNT	SIMPLE INTEREST	COUMPOUND INTEREST	GAIN
2	100000			
3	200000			₹\$ <sup>3</sup>
4	175000			20
5	400000	2000 N	12 00 7 7 0 0 1 5 T	
6	350000	51975	37/4/2002/4/20	
7 &	500000	PART AND		
8	YEARS	576	1. P. O.	
9	RATE	9%	2 2 7 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	

Write the steps to obtain

- i) SIMPLE INTEREST in column B where simple interest= (P\*N\*R)/100
- ii) COMPOUND INTEREST in column C where compound interest
- =P\*(1+R/100) ^N P, where P is AMOUNT, R is RATE and N is YEARS.
- iii) GAIN= COMPOUND INTEREST SIMPLE INTEREST in column D.
- (d) Explain the following built in functions in MS-EXCEL

1. PPMT() 2. ROUNDUP() 3. FV() 4. MAX()

5. CEILING() 6. RATE() 7. ABS()

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