			Time	e: 2½ Hours	То	tal Marks: 75	X V			
Note:	1) All	l quest	ions carry equal m	narks and are comp	ulsory.					
	2) Fig	gures t	o the right indicate	e maximum marks f	or a question.					
							200			
Q1	(A)		Attempt any <i>two</i> (True/False)	sub-questions fro	om (a), (b),(c) in MS	-EXCEL	(2)			
		(a)		a function can be a	reference to anothe	r cell in the	A A B			
		(b) (c)	To insert subtota	al you must sort the y have either a head	list. er or footer, but not	both.				
	(B)		Attempt any <i>two</i> Choice)	sub-questions fro	om (d), (e),(f) in My	SQL (Multiple	(2)			
		(d)		To indicate that there should be 6 integers and 2 decimal positions we use						
			 1)DECIMAL(8,2)	2)DECIMAL(6,2)	3)DECIMAL(2,6) 4)DECIMAL(2,8)				
		(e)	To save the trans	saction we use		6 9 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
			1) Rollback	2) Save	3) Commit	4) Return				
		(f)	A Database conta	ains one or more						
			1) Rows	2) Databases	3) Columns	4) Tables				
	(C)		Attempt any $\textbf{\textit{six}}$ sub-questions from (g),(h),(i),(j),(k),(l),(m),(n),(o) in Data Communications, Networking and Internet. (True/False).							
		(g)	Telecommunication system is an example of distributed processing.							
		(h)	A network is use	d to share hardware	e and software.					
	2	(i)			that occur in a bus t	opology.				
	20 E	(j)		rpes of twisted pair	cables. upper layers in the (oci II				
S	2 K C	(k) (l)	JSI model.							
37.7	7 6 C	(m)	and commercial							
	(m) In the domain name system .com is used for business and commer organisation.									
		(n)	Email can be sen	t with attachments.						
		(0)	Spoofing refers t users.	o tricking or deceiv	ing computer systen	ns or other computer				
	(D)	(u),(v),(w) in Data	(5)							
							(3)			
	Communications, Networking and Internet. (Multiple Choice) (p) The transmission medium that carries the message is referred to as the									
			1) Protocol	2) gateway	3) Communication	channel 4) Transport				
N. S. S.	200	(q)	A network s	pans a number of c	ities and countries.					
T TOO	2 12 6 2 13 6		1) LAN	2) MAN	3)WAN	4) None of these				
5 50 T	76.87	Y 300	25	-	•	•				

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		(r)	In topology all the nodes are connected with a single cable.							
			1) Bus	2) Ring	3) Star	4) None of these				
		(s)		is the fastest Int count 2) Shell accou		unt 4) Broadband account				
		(t)	Internet Exp	plorer is referred to	as					
			1) System S	oftware 2) Utility S	Software 3) Brows	sers 4) Internet tools.				
		(u)	Full form of	f HTTP is Hyper Tex	t × 2 × 2 × 2 × P	rotocol.				
			1) Transfer	2) Transport	3) Terminal	4) Transaction				
		(v)	The protoco	ol to download emai	l and store it in you	r computer is				
			1) POP	2)NMTP	3) FTP	4)HTTP				
		(w)	reasons.	_type of hackers br	eak into the securit	y system for non-harmful				
			1) Grey hat	2)Blue hat	3)White hat	4) Black hat				
Q2.	(A)		Answer <i>any one</i> sub-question from (a), (b) in Data Communications, Networking and Internet. Write the four main characteristics of LAN and WAN.							
		(a)	7566	50 50 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5)*				
		(b)	write short	notes on i) Twisted	ran Gable II) ribe	Орис Савіе				
	(B)	(c)	Networking	vone sub-question g and Internet. rotocol? Describe an		ta Communications, CP/IP protocol.	(7)			
N. C.	20 P.	(d)	What is hac	king and explain an	y three types of had	ckers.				
Q3.	(A)	(a)	Write MySC Consumer I character w character w	Number (CNO, interwith variable widtl	eate a table called ger, Primary key), n 30 columns), T 25 columns defaul	BEST having the columns Consumer Name (CNAME, ype of Connection (TYPE, t value "INDUSTRIAL") and	(8)			
		(b)	Employee Name of Er Name (DEP	Number (EN, Integon T, character with va	er, should be incr aracter with width riable width 20 colu	e a table called COMPANY having columns should be increased by 1 automatically), acter with width 30 columns), Department ble width 20 columns, should not be empty), Provident Fund Amount (PF, 8 integer and 2				

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(B) Answer **any one** sub-question from (c), (d) in MySQL

(7)

(c) Explain the following built-in functions in MySQL.

1)LOWER() 2)LTRIM()

3) REVERSE()

4) DAY()

5) ABS()

6) TIME()

7) MONTHNAME()

(d) There exists a table called PICNIC containing the columns Roll Number (RNO, integer, Primary Key), Name (SNAME, character variable width 20), Date of birth (DOB, Date), Gender (GENDER, character width 1) and Division (DIVISION, character variable width 4).

Write MySQL statements for the following.

- i) Display the structure of the table PICNIC.
- ii) Enter the following one row of data in this table.

RNO	SNAME	DOB	GENDER	DIVISION
101	REKHA	2001-03-01	5. C.	A Sold

- iii) Add a new column Mobile Number (MOB, integer) at the end of the table PICNIC.
- iv) Delete the row where roll number of the student is 56.
- v) Change the Date of Birth of student with roll number 11 to September 7, 1999.
- vi) Change the size of the column SName to 30 columns.
- vii) Rename the table PICNIC as FUNPICNIC.

Q4. (A) Answer **any one** sub-question from (a), (b) in MySQL

(8)

(a) There exists a table AMAZON having the columns Purchaser's Number (PNO, integer), Purchaser's Name (PNAME, character), Receipt Number (RNO, integer, primary key), Total Cost (TCOST, integer) and Date of Purchase (PURDT, date).

Write MySOL statements for the following.

- i) Display Purchaser's name, Receipt Number and Total Cost from this table where Date of Purchase is January 1, 2018.
- ii) Display Purchaser's Name and Total Cost where Total Cost is equal to the maximum Total Cost.
- iii) Display Date of Purchase, maximum and minimum Total Cost grouped by Date of Purchase.
- iv) Display Purchaser's Name, Date of Purchase and Total Cost where Total Cost is more than the average Total Cost.
- v) Display Purchaser's Name, Total Cost and "Discount" as 10% of Total Cost.
- (b) There exists a table INSTITUTE containing columns Roll Number (RNO, integer, primary key), Name (SNAME, character), Age (AGE, integer), Fees (FEES, decimal (8, 2)). There exists another table PERFORMANCE containing columns Roll Number (RNO, integer, primary key), Total marks (TOTAL, integer).

Write MySQL statements for the following.

- i) Display Name, Age and Total marks of a student with Roll Number 100 using both the tables.
- ii) Display Name, Age and Total marks of students getting Total Marks more than or equal to 400 using both the tables.

- iii) Display Roll number and Total marks of students who have scored more than average Total Marks using table PERFORMANCE.
- iv) Display Name and Fees of students who pay maximum Fees using table INSTITUTE.
- Q4. (B) Answer **any one** sub-question from (c), (d) in MySQL

(7)

- (c) There exist a table called RMALL containing columns Department Name (DEPT, character), Department Manager Name (MNAME, character), Date of Sale (DSALE, date), Sale Amount (SAMT, numeric) and Discount Amount (DISCOUNT, numeric).
 - Write MySQL statements for the following:-
 - i) Display Department Name, Manager Name, total and average Sale Amount grouped as per Department Manager.
 - ii) Display Department Name, Manager Name, minimum and maximum of the Discount Amount of each Department.
 - iii) Display all the rows where the Sale Amount is equal to maximum Sale Amount.
 - iv) Display Department Name, Manager Name, Sale Amount where Sale Amount is between 45000 and 70000.
- (d) There exists a table STUDENT containing columns Roll Number (RNO, integer), Students Name (SNAME, character), Age (AGE, integer), Mobile Number (MOBILE, integer) and Fees Paid (FPAID, numeric).

Write MySQL queries for the following.

- i) Display all the rows from this table where Student Name contains 'R'.
- ii) Display all the rows from this table where Age is more than 18.
- iii) Display Roll Number, Student Name labeled as 'Name of the Student' and Fees Paid from this table.
- iv) Display Roll Number, Student Name and Age from this table where Fees Paid is more than 7500.
- v) Display all the rows from this table in the ascending order of Roll Numbers.
- vi) Display all the rows from this table where Age is divisible by 5.
- vii) Display Students Name, Mobile Number and Fees Paid from this table.
- Q5. (A) Answer *any one* sub-question from (a), (b) in MS-EXCEL

(8)

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

Pos	ASS	B	Ç	Ð	E	F	G	Н
1	ROLL	NAME	ACC	ECO	MHRM	COMP	TOTAL	AVERAGE
A A	NO.	9 4 9 9 5 5 V	STONE OF					
2	152	AVINASH	88	80	92	99		
3	176	DIANA	60	64	80	97		
4	243	SAPNA	45	38	65	80		
5	362	KARAN	69	76	72	90		
6	89	ANU	98	90	98	100		
7	127	SAMPATH	87	85	90	98		
8	1000 C	7						
9	Z-Z-O.					MAX.		
4						AVG		
	K.					MARKS		

Write the steps to obtain

- I) Total Marks in column G
- ii) Average of best three subjects in column H.
- iii) Maximum average marks in cell H9.
- (b) For the following spreadsheet write the steps to obtain the subtotals of sales city wise.

	A	B	C 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	NAME	CITY	SALES
2	NIRAJ	MUMBAI	78000
3	KARTHIK	PUNE	60000
4	JAY	MUMBAI	100000
5	RAVPREET	NAGPUR	68000
6	RAM	NAGPUR	62000
7	DHEERAJ OF	PUNE	77000
8	ANUP ANUP	MUMBAI	75000

Q5. (B) Answer *any one* sub-question from (c), (d) in MS-EXCEL

(7)

(c) For the following spreadsheet write the steps to obtain the Pivot table showing total salary and lowest salary department wise in column G.

0	SATEST	B	C ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	D
15	NAME	AGE	DEPT	SALARY
2	VINAYAK	42	A/C	48000
3	NAVIN	28	PUR	32000
4	PADMA	25	ADMIN	25000
5	MOHAN	44	PUR	55000
6	PETER	46	ADMIN	46000
7	MUSCAN	29	A/C	30000
8	BHAVYA	32	PUR	36000

(d) Explain the following built in functions in MS			/ '			
(d) Evaluated following highly in tunctions in MS	-18 \\ \\ \\ \	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C AND A D 4 11.			· NAC DUCCH
	$\alpha \cap \gamma$	Hyplain tha	tollowing	hilltin	tunctione	110 N/IC H V I H I
COLUMN TO THE TOTAL CONTRACTOR OF THE TOTAL CONTRACTOR	CY L\X	TEXTURAL FULLS	1011010011112	THE THARLE	TUBULUOUS	111 191.3=15/1.41517

1. FV() 2. PPMT() 3. ROUNDDOWN() 4. MOD()

5. INT() 6. SQRT() 7. COUNT()

5