			'	Time: 2½ Hours	05	Total Marks: 7	5
	-	-	ions carry equal ma o the right indicate r	_			
Q1	(A)	(a)	Attempt any <i>two</i> (True/False) A workbook can co	-		S-EXCEL	(2)
		(b)	To calculate the many PMT() function.	onthly payment to	be made to pay o	ff a loan, we use	
		(c)	When data is sorte	d, some rows may	be hidden.		
	(B)	(d)	Attempt any <i>two</i> (Multiple Choice) When one query is	2325			(2)
			1) Mini query			4) Tied query	00
		(e)	Command used to	insert a record in t	he table HOTEL is		
			1) Update and Set	2) Alter	3) Insert into	4) Select	
		(f)	In MySQL, the open	ator LIKE "A%" fir	nds match for a str	ing	
			1) Starting with A		2) Ending with	A	
			3) Mixing with %		4) Containing A		
	(C)	5100	Attempt any <i>six</i> s in Data Commu <mark>n</mark> ic	at <mark>ions, N</mark> etworking	g and Internet. (Tr		(6)
	Ŕ	(g) (h)	Protocol is not nec A MAN can connec		nmunication.		
		(i)	Switch selects the address and origin	best path to send n	nessage, based on	the destination	
		(j) (k)	Fiber optic cable us Application layer c	ses a beam of light			
		(l)	networks. HTML is used to cr	eate web pages.			
300 X		(m)	A browser is word	processing softwa	re.		
	20 20 20 20 20 20 20 20 20	(n) (o)	Google .com is a se Red hat is a type of				
	(D)		Attempt any <i>five</i> in Data Communic				(5)
		(p)	A network where storage of data with	-	-	essing and	
			i) Peer-to-peer net		ii) client server b		
			iii) MTTP networl	ζ.	iv) none of these.		

		(q)	In topology all devices are connected to central hub.				
			1) Bus	2) Star	3)Ring	4) None of These	
		(r)		a wireless media 2) Fiber optic	, VO . (4) UTP cable	
		(s)	OSI model has	layer			
		(3)	1) 8	2) 7	3)6	4) 5	
		(t)	Encryption and 1) Application I	decryption are r		oflayer.	
			3) Network Lay	rer	4)Physic	al Layer	
		(u)	Full form of UR	L is Uniform Reso	ource		0,
			1) Location	2) Locator	3) Local	4) Live	
		(v)	is a	text-based brow	ser.		
			1)FireFox	2)Opera	3) Lynx	4)Internet Explorer	
		(w)	hacker			and a white hat	
		۵	1) Elite Hacker	2)Blue Hat	3)Yellow H	at 4) Black Hat	
Q2.	(A)		Networking and		386233	್ Data Communications,	(8)
		(a) (b)		6934 600		-to-Peer Network	
0					Si Voi dila i cei	to recritework	
	(B)	(c)	Networking and		95,	Data Communications,	(7)
		(d)		e on i) Hotspot ii			
	8 8 8						
Q3.	(A)	200	X50333	sub-question f		•	(8)
		(a)	following colun Room Type (RT value "NORMA	nns Registration YPE, character w	Number (RNO, vith variable wi te (SDATE, Dat	led HOTEL having the integer, Primary Key), dth 15 columns, default te) and Tariff (TARIFF,).	

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- (b) Write MySQL statement to create a table called LIBRARY containing columns Accession Number (ASNUM, integer, should be increased by 1 automatically), Book Name (NAME, character with variable width 25 columns, should not be empty), Author Name (AUTHOR, character with width 20 columns), Price of the Book (NUM, 7 integer and 2 decimals) and Date of Purchase (PURDT, Date).
- (B) Answer **any one** sub-question from (c), (d) in MySQL

(7)

- (c) Explain the following built-in functions in MySQL.
 - 1)LEFT() 2)TRIM()
- 3)MONTH()

4) LENGTH()

- 5) MOD()
- 6) POW()
- 7) NOW()
- (d) There exist a table RTRAVELS containing columns Travellers Number (TNO, integer), Name (TNAME, character), Destination City (CITY, Character 10), Date of Travel (DOT, date) and Fare (FARE, integer). Write MySQL statements for the following.
 - i) Display the structure of the table RTRAVELS.
 - ii) Enter the following one row of data in this table.

TNO	TNAME	CITY	DOT	FARE
101	AKASH	HYDERABAD	2018-12-24	8000

- iii) Add a new column Age (AGE, integer) at the beginning of the table RTRAVELS.
- iv) Delete the rows where destination city is PUNE.
- v) Change the Date of travel of traveller with name "SAMEER" to May 10, 2019.
- vi) Change the size of the column TName to 25 columns.
- vii) Delete the table RTRAVELS.
- Q4. (A) Answer *any one* sub-question from (a), (b) in MySQL

(8)

- (a) There exists a table INVENTORY having the columns Warehouse Name (WNAME, character), Item Number (INO, integer, primary key), Item Name (INAME, character), Unit Price (UPRICE, integer), Quantity (Quantity, integer).
 - Write MySQL statements for the following.
 - i) Display Warehouse Name, Item Name and Quantity from this table.
 - ii) Display Warehouse Name, Item Name and unit Price of those Items whose Unit Price is more than or equal to the average Unit Price.
 - iii) Display Warehouse Name, maximum and total Quantity grouped by Warehouse Name.
 - iv) Display Warehouse Name, Item Name and Quantity of those Items whose Quantity is equal to maximum Quantity.
 - v) Display all the rows from this table in the descending order of Unit Price.
- (b) There exists a table SALES containing columns Salesman Number (SNO, integer, primary key), Salesman's Name (SNAME, character), Gender (GENDER, character) and Sales Amount (SAMT, numeric). There exists another table TARGET containing the columns Salesman Number (SNO, integer, primary key), Area of Sale (AREA, character) and Target Sale (TSALE, numeric).
 - Write MySQL statements for the following.
 - i) Display Salesman's Name, Gender, Sales Amount and Target Sale for Salesmen having Sales Amount more than 250000 using both the tables.

- ii) Display Salesman's Name, Sales Amount and Target Sale for all the salesmen having Sales Amount between 50000 and 150000 using both the tables.
- iii) Display Salesman Number, Salesman's Name and Sales Amount from the table SALES for those salesmen having Sales Amount below the average Sales Amount.
- iv) Display Salesman Number, Salesman's Name and Sales Amount from the table SALES for those salesmen having Sales Amount equal to maximum Sales Amount.
- **Q4.** (B) Answer *any one* sub-question from (c), (d) in MySQL

(7)

(c) There exists a table ZBANK containing columns Bank Account Number (BNO, integer), Name of the depositor (DNAME, character), City (CITY, Character), Branch (BRANCH, character), Amount deposited (DEP, numeric) and Date of Deposit (DEPDT, date).

Write MySQL queries for the following.

- i) Display the City, Branch, maximum amounts deposited and the average amounts deposited grouped as per Branch.
- ii) Display the City, Branch, total number of amounts deposited and minimum amounts deposited grouped as per Branch.
- iii) Display all the rows where the Amount deposited is above the average Amount deposited.
- iv) Display all the rows from this table where the amount Deposited is more than 50000.
- (d) There exist a table called BOOKS with columns Book Number (BNO, integer), Book Name (BNAME, character), Author Name (AUTHOR, character), Number of Copies (NCOPY, integer), Price of Book (Price, integer) and Date of Purchase (PDATE, date).

Write MySQL queries for the following.

- i) Display all the rows from this table in the alphabetical order of Author Name.
- ii) Display Book Name, Author Name and Number of Copies from this table where Price of Book is more than 1000.
- iii) Display Book Name, Price of the Book and "Scrap Value" which is 10 % of the Price of the Book from this table
- iv) Display all the rows from this table where the second letter in Book Name is 'a'.
- v) Display all the rows from this table.
- vi) Display Book number, Author Name and Number of Copies from this table where book Name is "Computer Systems and Applications".
- vii) Display all the rows from this table where the Author Name is "SHARMA".

Q5. (A) Answer *any one* sub-question from (a), (b) in MS-EXCEL

(8)

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

(C) (A)	A	В	С	D	E	F	G
3	NAME	BASIC	HRA	DA	GROSS	TAX	NET
010	RAM	25000					
2	RAHIM	10000					
3	ARJUN	18000					
4	ANTHONY	12000					·
5.	VARUN	30000					·

Write the steps to obtain

- i) HRA as 60% of the Basic or 15,000 whichever is less in column C
- ii) DA as 110% of the Basic rounded to the nearest integer in column D.
- iii) GROSS as BASIC+DA+HRA in column E.
- iv) TAX as 33.3% of GROSS in column F.
- v) NET=GROSS-TAX in column G.
- (b) The following data has been entered in a worksheet.

	A	В	С		E) 2, 76, 8, 7	F S
1	PRODUCT	PRICE	UNITS	TOTAL	DISCOUNT	NET
	NAME	PER	SOLD	AMOUNT		AMOUNT
		UNIT				
2	A	16000	10			100000
3	В	28000	2			
4	С	4000	15	20,000		
5	D	850	14			
6	E	1250	8			
7		0000	508 508 508	\$ 0.55 B	30000	
8	RATE OF	25%	30 CO	30 × 50		5,5,5
	DISCOUNT		00000	9 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		26.65

Write steps to obtain

- i) TOTAL AMOUNT = UNITS SOLD x PRICE PER UNIT
- ii) DISCOUNT = TOTAL AMOUNT x 25%
- iii) NET AMOUNT = TOTAL AMOUNT- DISCOUNT
- iv) Find sum of NET AMOUNT in cell F7
- **Q5.** (B) Answer **any one** sub-question from (c), (d) in MS-EXCEL
 - (c) For the following spreadsheet write steps to obtain the Subtotals of the fees paid class wise

(7)

	A		В	С
1	ROLL NO	NAME	CLASS	FEES PAID
2	34	DARSHIT	T.Y.B.Com	4500
3	78	AMAN	F.Y.B.Com	3500
4	45	MALHAR	S.Y.B.Com	4000
5	120	KARISHMA	T.Y.B.Com	4500
6	153	SRIDEVI	S.Y.B.Com	4000
7	248	JOHN	F.Y.B.Com	3500
8	891	AKBAR	T.Y.B.Com	4500

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

1. IPMT() 2. NPER() 3. ABS() 4. ROUND()

5. FLOOR() 6. MIN() 7. AVERAGE()

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