T. T. (OMPU+08. Q. P. Code: 25113

Note: 1) All questions carry equal marks and are compulsory. 2) Figures to the right indicate maximum marks for a question. (2) (True/False) (a) If a cell displays #### it means that it contains invalid data. (b) The default cell reference is an absolute cell reference. (c) The page numbers can be assigned using Header/Footer option. (B) Attempt any two sub-questions from (d), (e), (f) in MySQL (dultiple Choice) (d) In MySQL, the operator LIKE "U%" finds match for a string	Time: 2½	Hours	Total Marks:	75
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이 선생님은 사람들이 많은 사람이 되었다.	(D)	(p)	Encryption and decryption are responsibilities of layer of OSI model.	(5)
1) Uniformly Terminating Port 2) Unshielded To Protect		(q)	The acronym UTP stands for	
Unshielded Twisted Pair 4) Unit Transfer Protocol				

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		(r)	Direct poi	nt to point link l ology.	oetween neighbor	ing nodes exist in	
			1) Bus	2) Ring	3) Star	4) None of these	
		(s)	Which of t smaller ne 1) Hub	the following is usetworks? 2)Bridg		large network into two	
		(t)		ık can appear as		er 4) Modem 4) Both Text & Image	
		(u)	The first p web resou 1) Protoco	art of a complete	e URL is the	needed to access the ation 4) Address	
		(v)	Sniffer in i	nternet working	means	Phishing	
			3) Trackin	g information &	copying it 4)	Spying	
		(w)			Line Intern		
Q2.	(A)	(a)	Networking	g and Internet.		in Data Communications,	
		(a)	Star topolo	term topology. \ gy.	Write short notes	on (i) Ring topology (ii)	
		(b)	What is ne Network (ii	twork structure) Peer-to-Peer N	? Write short no letwork.	otes on (i) Client-Server	
	(B)	(c)	Communica	rone sub-ques tions, Networking on Spoofing wi	tion from (c), (d) ng and Internet. th examples.	in Data	(7)
		(d)		notes on (i) Blog			
Q3.	(A)	(a) (b)	Answer any Write MySQ following co Course Nam Semester(SE Building (Bu Write MySQ columns En	cone sub-quest L statement to columns Course le (CNAME, char EM, integer, shoulding, character L statement to comployees Identit	ion from (a), (b) create a table cal Id (COURSE_ID, racter with variabilid not be empty) with width 8). The reate a table callery Number (E. No.	led COURSE having the integer, Primary Key), ple width 20 columns), and Year(YEAR, Date), ed Employee having the printeger). Employees	(8)
		(integer, Posi	tive) Gender (GE	th variable width	25 columns), Age (AGE,	
	(B)	(c)	Answer any a Explain the fe	one sub-questi ollowing built-in	on from (c), (d) i functions in MySo	n MySQL QL.	(7)
			1)LEFT()	2)RTRIM()	3)CURDATE()	4) DAYNAME()	
8 8			5) MOD()	6) POW()	7) ABS()		

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(8)

- (d) There exists a table called SALARY containing the columns Employee Number (ENO, integer, Primary Key), Name (ENAME, character variable width 20), Date of birth (DOB, Date), Gender(gender, character width 1) and salary (SAL, 5 integer and 2 decimal places) Write MySQL statements for the following.
 - i) Display the structure of the table Salary.
 - ii) Add a new column date of join (DOJ, Date) at the end of the table SALARY.
 - iii) Rename the column DOB to DBT.
 - iv) Change the size of the column SAL to 6 integer and 2 decimal places.
 - v) Increase the salary of all employees by 1000.
 - vi) Delete the row where employee number is 48.
 - vii) Rename the table SALARY as SAL.

Q4. (A) (a)

Answer *any one* sub-question from (a), (b) in MySQL There exists a table OFFICE containing columns Employee Number (ENO, Integer), Name (NAME, character), Department (DEPT, character), Salary (SAL, numeric) and Provident fund amount (PF, numeric).

Write MySQL queries for the following.

- i) Display Employee Number, Name, Department and Provident fund amount from this table.
- Display Employee Number, Name and Provident fund amount where Provident fund amount is below the average Provident fund amount.
- iii) Display Department, maximum and minimum Provident fund amount grouped as per Department.
- Display Employee Number, Name and Provident fund amount in the ascending order of Provident fund amount.
- Display all the rows from this table where Employee Number is divisible by 5.
- (b) There exists a table STUDENT containing columns Roll no.(RNO, integer, Primary key) and Name (SNAME, character), Class(Class, character). There exists another table MARKS containing columns Roll no (RNO, integer, Primary key), marks in Test 1(T1, integer) and marks in Test 2 (T2, integer).

Write MySQL queries to perform the following:

- i) Display roll no., name and marks in 2 tests using both the tables.
- ii) Display roll no., name and marks in first test where marks in the first test is less than 40 using both the tables.
- iii) Display roll no, marks in test2 from the table marks for those students where the mark obtained is equal to the highest marks obtained.
- iv) Display roll no, name, class in the descending order of name from the table student.
- v) Display all the rows from the table MARKS where student roll number is less than 100.

Q4. (B) 4 (c)

Answer *any one* sub-question from (c), (d) in MySQL (7) There exists a table SALES containing columns Salesman's Number (SNo, integer), Name (SNAME, character), City (CITY, Character), Sales made by salesman (SALE, numeric) and commission (COM, numeric). Write MySQL queries for the following.

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i) Display city, maximum and minimum sales grouped as per City.

ii) Display city, total and average sales grouped as per city.

- iii) Display salesman's number and name whose sales is below the average sale.
- iv) Display all the rows from this table where the salesman's name starts with 'M'.
- (d) There exists a table TOUR containing columns Travellers Number (TNO, integer), Name (TNAME, character), Age (Age, integer), destination city (DCity, Character 10) date of travel (DOT, date) and Fare (FARE, decimal (6,2)).

Write MySQL queries for the following.

- i) Display all the rows from this table where date of travel is after 25^{th} December 2017.
- ii) Display first ten rows from this table.
- iii) Display the total fare collected from this table and label it as TFARE.
- iv) Display travellers number and name where destination city is "Shimla" from this table.
- v) Display all the rows from this table.
- vi) Display all the rows from this table in the descending order of age.
- vii) Display travellers no, name, age, destination city of the traveller whose name is "BHARGAV".

Q5. (A)

Answer *any one* sub-question from (a), (b) in MS-EXCEL The following data has been entered in a worksheet.

i entered in a worksheet.

C D F F

	Α	BANAS	C	D	TE	F
1	NAME	BASIC	DA	HRA	TOTAL PAY	TAX
2	RAMESH	100000		15	1.3 / L. A.	IAA
3	POOJA	75000	To the			-
4	ANJALI	67000	4 3 3			-
5	AJAY	120000	\$25 m			+
5	KAJOL	80000	800 A		-	
7	KAYA	90000	10000	7.00		-

Write the steps to obtain

- i) DA as 130% of the Basic or 40,000 whichever is more in column C .
- ii) HRA as 18% of the Basic or $20{,}000$ whichever is less in column D.
- iii) TOTAL PAY as BASIC + DA + HRA in column E.
- iv) TAX as 25% of TOTAL PAY in column F.

(b) For the following spreadsheet obtain the Pivot table showing total profit & maximum profit city wise in column E.

	Α	В	C
1	NAME	CITY	PROFIT
2	RAHIL	BANGALORE	55000
3	JAI	MUMBAI	70000
4	RUSHIT	NASIK	59000
5	FARHAN	BANGALORE	64000
6	VAIBHAV	NASIK	55000
7	ALI	MUMBAI	74000
8	HUSSAIN	BANGALORE	85000

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AD55F62224318ABD441CFBD767CB8723

Q5. (B) (c)

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

(7)

	Α	В	С	D	Е	F	G	HONE
1	NAME	IT	OC	BC	EVS	SP	TOTAL	AVERAGE
2	SURESH	60	56	65	44	45	270	82028
3	ANEESH	70	70	66	54	56	316	33333
4	ROHINI	72	70	70	64	66	242	
5	RAVI	80	72	75	71	76	37u	
6	ADITYA	87	78	82	78	76	401	
7	HIGHEST				Á			

Write the steps to obtain

- i) TOTAL marks in column G.
- ii) AVERAGE marks in column H.
- iii) HIGHEST subject wise in cells B7, C7, D7, E7 and F7 respectively.
- iv) Average Highest marks in cell H7.
- (d) Explain the following built in functions in MS-EXCEL

1. IPMT()

2. ROUND()

3. PV()

4. MIN()

5. FLOOR()

6. PMT()

7. SQRT()