Q. P. Code: 25113

Time:	2½ F	lours	Total Marks: 75						
Note:	1) All	quest	ions carry equal marks and are compulsory.						
	2) Fig	ures t	o the right indicate maximum marks for a question.	7 7 7 X					
				55					
Q1	(A)		Attempt any <i>two</i> sub-questions from (a), (b),(c) in MS-EXCEL (True/False)	(2)					
		(a) (b) (c)	If a cell displays #### it means that it contains invalid data. The default cell reference is an absolute cell reference. The page numbers can be assigned using Header/Footer option.						
	(B)	(d)	Attempt any <i>two</i> sub-questions from (d), (e),(f) in MySQL (Multiple Choice) In MySQL, the operator LIKE "U%" finds match for a string 1) Ending with U 2) Starting with U	(2)					
			3) Containing U 4) Containing U%						
		(e)	To make changes in the structure of the existing table we use						
			1) Alter 2) Update 3) Set 4) Create						
		(f)	Insert command is used with clause. 1) In 2) Into 3) To 4) From						
	(C)	(g) <	Attempt any <i>six</i> sub-questions from (g),(h),(i),(j),(k),(l),(m),(n),(o) (6) in Data Communications, Networking and Internet. (True/False). Fiber optic cables are cheaper than coaxial cables.						
		(h)	Terminators are used at the end of the cable in bus topology.						
		(i)	Computer network has no disadvantages.						
	.8	(j)	Web pages are created by using HTML.						
	20	(k)	A meta search engine creates its own database of information.						
	5 C C C C C C C C C C C C C C C C C C C	(l)	More than one file can be attached with an email.						
	5,0°6	(m)	The different parts of a message will always arrive in order at the destination.						
		The domain name abbreviation .com stands for a non-profit organization.							
		(o)	White hackers break into the security system for non-harmful reasons, like to test the security system.						
	(D)	(p)	Attempt any <i>five</i> sub-questions from (p),(q),(r),(s),(t),(u),(v),(w) in Data Communications, Networking and Internet. (Multiple Choice) Encryption and decryption are responsibilities of layer of OSI model. 1) Session 2) Presentation 3) Application 4) Transport	(5)					
		(p)	The acronym UTP stands for 1) Uniformly Terminating Port 2) Unshielded To Protect						
26 EV	8 8 8 8 8 8								
0,00	8 6 K	12 AS	3) Unshielded Twisted Pair 4) Unit Transfer Protocol						

		(r)	topology	7.	een neignboring r		
			1) Bus	2) Ring	3) Star	4) None of these	
		(s)	Which of the for smaller netwo	_	to segment a larg	e network into two	
			1) Hub	2)Bridge	3) Router	4) Modem	
		(t)	A hyperlink ca 1) Only Text		3) Code	4) Both Text & Image	
		(u)	The first part of web resource.	of a complete UR	L is then	eeded to access the	
			1) Protocol	2) Name	3) Locatio	n 4) Address	DO THE
		(v)	Sniffer in inter 1) Hacking	net working me	ans 2) Phi	shing	
			3) Tracking in	formation & cop	ying it 4) Spy	ving	
		(w)	The full form of 1) Solid	of SLIP is 2) Supreme	Line Internet 3) Serial	Protocol. 4) Secure	Sv.
Q2.	(A)		Answer <i>any or</i> Networking an	Σ	n from (a), (b) in l	Data Communications,	(8)
		(a)	Define the terr Star topology.	m topology. Wri	te short notes on	(i) Ring topology (ii)	
		(b)		ork structure? ' eer-to-Peer Net) (0,17×10,0,0,17,1,0,0,0	s on (i) Client-Server	
	(B)	8	THE ANY A DESCRIPTION OF THE PERSON OF THE P		n from (c), (d) in	Data	(7)
		(c)	- V Cy - Y CY CY CX	ns, Networking n Spoofing with	VO SO SO SO SO SO		
	25	(d)		tes on (i) Blog (0,00,000		
Q3.	(A)	(a)	Write MySQL	statement to cr	X 2. 7	d COURSE having the	(8)
\$ 8 8 5 V			Course Name	(CNAME, charae	cter with variable	teger, Primary Key), width 20 columns), nd Year(YEAR, Date),	
		(b)	Write MySQL		eate a table called	Employee having the integer), Employees	
	PARA PARA PARA PARA PARA PARA PARA PARA		integer, Positiv	ve) Gender (GEN		5 columns), Age (AGE, 1 column, with default	
	(B)	(c)			n from (c), (d) in functions in MySQ		(7)
18 A		6,000	1)LEFT()	2)RTRIM()	3)CURDATE()	4) DAYNAME()	
SELEN S	5,42		5) MOD()	6) POW()	7) ABS()		

Q. P. Code: 25113

(8)

(7)

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

(a) 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.
- ii) 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.
- iv) Display Employee Number, Name and Provident fund amount in the ascending order of Provident fund amount.
- v) 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) Answer **any one** sub-question from (c), (d) in MySQL

(c) 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.

- 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".

(8)

- Q5. (A) Answer **any one** sub-question from (a), (b) in MS-EXCEL
 - (a) The following data has been entered in a worksheet.

£3.8	A	BOOK	(C) (S)	A DO	PESSE	F
1	NAME	BASIC	DA	HRA	TOTAL PAY	TAX
2	RAMESH	100000	6, 6, 6, 6	1000	70,00h	
3	POOJA	75000		10 P		
4	ANJALI	67000		2 6 7 K B	7	
5,	AJAY	120000	2000	100 G		
6	KAJOL	80000	1880°	79,70		
27 N	KAYA	90000		200		

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.

W. J.	A	В	С
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

Page **4** of **5**

Q. P. Code: 25113

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

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

	A	В	С	D	E	F	G^{\times}	H
1	NAME	IT	OC	BC	EVS	SP	TOTAL	AVERAGE
2	SURESH	60	56	65	44	45	8 8 8 8 8 C	
3	ANEESH	70	70	66	54	56	100 P	
4	ROHINI	72	70	70	64	66		2300K
5	RAVI	80	72	75	71	76		222
6	ADITYA	87	78	82	78	76		
7	HIGHEST		Ś	266		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45.55 E	

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()
