Q. P. Code: 09303

Total Marks: 75

2) Figures to the right indicate maximum marks for a question. Attempt any *two* sub-questions from (a), (b),(c) in spreadsheet (2) Q1. (A) (True/False) We can link two workbooks. (a) Formulas must begin with an equality sign. (b) PPMT function returns the interest payment for a given period for an (c) investment based on periodic constant payments and a constant interest rate. (2) (B) Attempt any **two** sub-questions from (d), (e),(f) in MySQL (Multiple Choice) To open a database CLASS the statement is -----(d) 1) SELECT CLASS 2) CHOOSE CLASS 3) OPEN CLASS 4) USE CLASS In MySQL, SELECT * FROM salary LIMIT 4,2; displays-----(e) 1) all rows 2) 5th,6th rows 3) 4th row twice 4) 4th and 5th rows To indicate that there should be 6 integers and 2 decimal (f) positions we use-----1) DECIMAL(8,2) 2) DECIMAL(6,2) 3) DECIMAL(2,6) 4) DECIMAL(2,8) (C) Attempt any six sub-questions from (g),(h),(i),(j),(k),(l),(m),(n),(o) (6)in Data Communications, Networking and Internet. (True/False). Message is not a component of data communication. (g) In LAN there may be more than one server. (h) (i) It is easy to add/remove a node in star topology. OSI is a network protocol. (j) (k) Each URL consists of three parts. A Fiber Optic Cable carries data using Electric Current. (I) AND is a Boolean operator. (m) (n)Google is a Meta Search Engine. (o) White hat are hackers who break computer security for non-harmful reasons like to test the security of the system. (D) Attempt any *five* sub-questions from $(p)_{x}(q)_{y}(r)_{y}(s)_{y}(t)_{y}(u)_{y}(v)_{y}(w)$ (5)in Data Communications, Networking and Internet. (Multiple Choice) -----is also called Data Transmission. (p) 1)Data distribution 2) Data representation 3) Data Communication 4) None of these The fastest transmission media is-----(q)

Time: 2½ Hours

Note: 1) All questions carry equal marks and are compulsory.

3)Co-axial

4) Wireless

2) Fiber-optic

1) Twisted pair

		(r)	Full form of HTTP 1) Hyper Text Tra 3) Home Text Tra	nsfer Protocol	2)Hyper Test Trans 4) Hyper Text Tran				
		(s)	is a dev more efficient net 1)Hub 2) brid	work.	ve can segment a la 4) router	arge network into smaller			
		(t)	In topolo 1)Star 2) Bus	ogy all nodes are og 3) Ring 4) Nor		to a central system.			
		(u)	1) The Domain na	ame 2) user nam	email address is e 3) sub domain n	ame 4) None of these			
		(v)	Google Chrome is a 1) Hardware 2) Browser 3) Utility software 4) Internet tool						
		(w)	allows us	allows user to search simultaneously on several search engines. Server 2) Boolean search 3) Meta search engine 4) none of these.					
Q2.	(A)		Answer <i>any one</i> sub-question from (a), (b) in Data Communications, Networking and Internet.						
		(a)	What is networking	ng? Explain differ	ent types of Netwo	rks.			
		(b)	Write short notes	on (i) Bridges (ii)	routers.				
	(B)	(c)	Answer <i>any one</i> Networking and In Explain TCP/IP pr	nternet	om (c), (d) in Data (Communications,	(7)		
		(d)	Explain hacking a	12,200		Ÿ			
Q3.	(A)	(4)			5 6 6 6)I	(8)		
QJ.	(11)	(a)	Answer <i>any one</i> sub-question from (a), (b) in MySQL Write MySQL statement to create a table called ADMISSION having the columns						
			Name of Student (SNAME, character with variable width 15 columns, should not be empty), Gender (MALE, Boolean), Date of Birth (DOB, date, should not be empty), Fees Paid (FEES, having 6 integers and 2 decimal places, positive).						
		(b)	Write MySQL statement to create a table called ECHARGE containing information of customers using electricity provided by XYZ company having columns Customer Number(CNO, integer, primary key), Customer Name(CNAME, character with variable width 20, not empty), Customer Address(CADR, character of fixed width 12, containing default entry 'RESIDENTIAL'), Units consumed(UNITS, integer).						
	(B)	(c)	Answer any one sub-question from (c), (d) in MySQL (Explain the following built-in functions in MySQL.						
	3000	90,0	1)TRIM ()	2)UPPER()	3) RIGHT()	4) DATE()			
			5) YEAR()	6) DAYNAME()	7) POW()				

(d) There exists a table called TYCLASS having the following columns Roll number (RN, integer), Name of the student (SNAME, character variable width 20), Subject offered (OPT, character width 10) and Marks obtained in SY(MKSY, integer).

Write MySQL statements for the following.

- i) Display the structure of the table TYCLASS.
- ii) To delete the row from the table TYCLASS where roll number is 126.
- iii) Change the name of the column RN to RNO.
- iv)Increase the marks obtained in SY by 5 for all the students.
- v) Change the subject offered by the roll number 120 to 'COMPUTER'.
- vi) Add a new column division (DIVI character width 1) to this table after the name column.
- vii) Rename the table TYCLASS to TYBCOMCLASS.
- Q4. (A) Answer *any one* sub-question from (a), (b) in MySQL (8)
 - (a) There exists a table RAIL having the columns Station Number (SNO, integer), Station Name (SNAME, character), Amount Collected (AMT, numeric). Write MySOL statements for the following.
 - i) Display Station Number, Station name and Amount Collected from this table.
 - ii) Display Station Number, Station Name whose Amount Collected is below the average Amount Collected.
 - iii) Display Station Name, maximum Amount and total Amount Collected from stations grouped by Station Names.
 - iv) Display Station Number, Station Name whose Amount Collected is equal to the Highest Amount Collected.
 - v) Display all the rows from this table in the ascending order of amount Collected.
 - (b) There exists a table TRAVEL containing columns Passenger Number (PNO, integer, primary key), Passenger Name (PNAME, char(20)) and Age of Passenger (AGE, integer). There exists another table JOURNEY containing columns Passenger Number (PNO, integer, primary key), Destination City (CITY, char(15)), Fare(FARE, decimal(6,2)) and Date of Travel (DTR, date). Write MySQL statements for the following.
 - i) Display Passenger Number, Passenger's Name and Fare for those having Destination City 'PUNE' using both the tables.
 - ii) Display Passenger Number, Destination City and Date of Travel for those whose Date of Travel is after May 15, 2017 using both the tables.
 - iii) Display Passenger Number, Fare from the table JOURNEY for those passengers whose Fare is equal to the highest Fare.
 - iv) Display Passenger Number, Fare and Date of Travel from the table JOURNEY for those who want to travel in the month of MAY..
 - v) Display all the rows from the table TRAVEL where the passenger's name contains 'S'.

Q4. (B) Answer **any one** sub-question from (c), (d) in MySQL

(7)

- (c) There exists a table OFFICE containing columns employee number (ENO, Integer), name of the employee (ENAME, character), department name (DEPT, Character), Salary (SALARY, numeric), provident fund amount (PF, numeric) and date of deduction (DEDDT, date). Write MySQL queries for the following.
 - i) Display the department name, maximum Salary and minimum of Salary grouped as per department.
 - ii) Display the department name, average provident fund amount and total of the provident fund amount grouped as per department.
 - iii) Display the employee number, name of the employee and Salary where the Salary is above the average Salary.
 - iv) Display all the rows from this table where the employee number is divisible by 7.
- (d) There exists a table BOOKS containing columns Account Number (ACNO, integer, primary key), Book Name (BNAME, character), Number of copies (NCOPY, integer), Value of the book (Value, integer) and Date of Publication (DOP, Date).

Write MySQL queries for the following.

- i) Display all the rows from this table.
- ii) Display all the rows from this table in alphabetical order of book name.
- iii) Display the columns Account number, Book name and Date of Publication from this table.
- iv) Display the structure of the table BOOKS.
- v) Display the rows from this table where the date of Publication is after March 1, 2011.
- vi) Display all the rows from this table in the descending order of Value of the book.
- vii) Display all the rows from this table where the first letter in the Book Name is 'I'.
- Q5. (A) Answer *any one* sub-question from (a), (b) in MS-EXCEL

(8)

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

	A CONTRACTOR	В	С	Е
	FNAME	L NAME	AGE	SALARY
2	SALIM	KHAN	45	45000
3	ANANT	KULKARNI	30	30000
4	RAHUL	SHAH	35	55000
5	AANA	MEHTA	30	40000
6	RAJNI	MEHTA	46	20000
7	ASHA	SHAH	35	25000
8	AAMIR	KHAN	45	55000

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(7)

5

Write steps to do the following:-

- i) Arrange data in the descending order of age and further in the ascending order of Salary.
- ii) Arrange the data in the alphabetic order of L Name and further in the descending order of F Name.
- (b) For the following spreadsheet obtain the Pivot table showing total Salary and average Salary Gender wise in column F1.

	A	B		D
1	NAME	CITY	GENDER	SALARY
2	SHAAN	NASIK	MALE	350000
3	ADITYA	MUMBAI	MALE	550000
4	SARITA	PUNE	FEMALE	540000
5	NIKKI	NASIK	FEMALE	550000
6	RIDHI	PUNE	FEMALE	670000
7	SUMIT 🔔	MUMBAI	MALE	700000

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

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

	~ . 6			727 V V V V V V V V V V V V V V V V V V	70,750	10, 01, 10 10 10 10 10 10 10 10 10 10 10 10 10	
	A SOCI	В	9 C.	D	E	For	G
1	NAME	TI	TAX	MHRM	ECO	TOTAL	AVERAGE
2	KIRTI	86	80	65	61		
3	RIDHI	82	78	71	58		
4	ADITYA	94	89	76	72		
5	GAURAV	76	70	64	55		
6	MITALI	79	67	59	60		
70	HIGHEST	\$ 000		13900 C			

Write the steps to obtain

- i) TOTAL marks in column F.
- ii) AVERAGE marks as average of best three in column G.
- iii) HIGHEST marks subject wise in cells B7, C7, D7 and E7 respectively.
- (d) Explain the following built in functions in MS-EXCEL

1. FV() 2. PMT()	3. ROUNDUP()	4. NPER()
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5. CEILING() 6.MOD() 7. SQRT()