## Paper / Subject Code: 23120 / Computer systems & Applications Paper -I

Time	: 21/2	Hou	ırs				Total Marks: 7	5
Note:	1) Al 2) Fi <sub>i</sub>	l que gures	stions carry equal m to the right indicate	arks and are co maximum ma	ompuls rks for	sory. a question.		
Q1.	(A)		Attempt any two (True/False)	sub-question	ns fron	n (a), (b),(c)	in spreadsheet	(2)
		(a)	Shift key is used t	o select a non-	contig	uous range.		St. Ch.
		(b)	There are two typ	es of cell refer	rences.			S. 12.
		(c)	A pivot table is a	dynamic sumn	nary of	the data.		
	(B)	(4)	Attempt any <i>two</i> (Multiple Choice)		200	6,2,20,0		(2)
		(d)	1)DECIMAL(7,2)	ii)DECIMAL(	5,2)	iii)DECIMA		
		(e)	When one query i	s written withi ii) Net query	in anot	her query it iii) Sub que	is termed as a	
		(f)	In MySQL, the ope i) Ending with R	rator LIKE "%	R" find	ls match for	a string	
	(C)		Attempt any six in Data Communic	ations, Networ	rking a	nd Internet.	(True/False).	(6)
		(g)	The data transmis	sion can take p	olace w	rithout a pro	tocol.	
		(h)	In client server are	chitecture, all r	esour	ces are contr	olled by the server.	
		(i)	In ring topology network.	failure of one	node	will not affe	ect the functioning of the	
		(j)	Coaxial cable can b	e used over lo	nger d	istances than	n twisted -pair cable.	
		(k)	A bridge is a device smaller, more effic	e using which	we can	segment a la	arger network into two	
		(1)	IP addresses are ea			300		
		(m)	Face book is a sear					
		(n)	Emails cannot be s		ment			
		(0)	Vishing uses VoIP t		A STATE OF THE STA	24 ( ) ( ) ( )		
. (	D)		Attempt any five	sub-questions	from (	n).(a).(r).(s)	(t) (u) (v) (w)	(5)
		(p)	Anetwork spa	ations, Networ ns a number o	rking a f cities	nd Internet. and countri	(Multiple Choice) es.	(3)
		(a)	A CONTRACT OF THE PARTY OF THE	ii) MAN		)WAN	iv) None of these	
		(q)					s referred to as the	
		(-)		gateway i	iii) Cor	nmunication	channel iv) Transport	
		(r)	In topolog					
		(6)		i) Ring	111	) Star	iv) None of these	
		(s)	POP stands for		) D			
5			i) Post Office Proto			st Open Pro		
	3	(t)	iii) Post Operate Pr			one of these		
			i) Added i	i) Rearranged	iii) I	Deleted	layers, headers are iv) Modified	
	32.1	(u)	The activity of upda		alled_			
			i) Blogging i	i) Blogger	iii) P	resenter	iv) Hacking	
127				Page 1 of	f E			

		(v) (w)	i) Dogpile	eta search engine ii) Google is made up of	iii) Alta Vista	iv) Yahoo			
		(**)	i) 64	ii)32	iii)16	iv) 8			
Q2.	(A)	(a)	Answer <i>any on</i> Networking an Explain i) MAN	d Internet.	ı from (a), (b) in Dat	a Communications,	(8)		
		(b)	Write a note or	n Bridge and Rou	ter.				
	(B)		Answer <i>any on</i> Networking an		from (c), (d) in Dat	a Communications,	(7)		
		(c)	What is electro	onic mail? State a	dvantages and impo	ortance of e-mail.			
		(d)	Write short not	es on sniffing an	d spoofing.				
Q3.	(A)	(a)	Answer any one sub-question from (a), (b) in MySQL (8 Write MySQL statement to create a table called PAYROLL having the columns Employee Number (ENO, integer, Primary key), Employee Name (ENAME, character with variable width 25 columns, should not be empty), Date of Joining (DOJ, Date) and Salary (SALARY, width of 9 including 2 decimals, default value 18000).						
	(b) Write MySQL statement to create a to columns Donor Identity Number (DNO, (DNAME, character with width 20 column character with variable width 15 column not negative), Date of Donation (DT, Date					rimary key), Donor Name or Email Address (DEmail,			
	(B)		Answer any one	sub-question	from (c), (d) in My	SQL	(7)		
		(c)	Explain the follo	owing built-in fu 2)LTRIM()	nctions in MySQL. 3) RIGHT()	4) DATE()			
			5) ROUND()	6) POW()	7) MONTHNAME(	)			
		(d)	integer), Custo	mer Name (Cl l Cost (TCOST, ii	NAME, character), nteger) and Date of I	s Customer Number (CNO, Product Name (PNAME, Purchase (PURDT, date).			
			iii) Delete the ro iv) Add a new co v) Change the P	OWING ONE FOW CONAME PNAMI DITYA Realmon OW where Custon Dlumn Discount ( Froduct Name to 1	of data in this table.  TCOST PU  2Pro 9000 20  ner number is 950.  DISC, integer) at the	RDT 19-04-10 e end of the table FLIPKART name "Ramesh Shah".			

vii) Rename the table FLIPKART as FLIPCART.



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

(8)

- (a) There exists a table GOAIR having the columns Flight Number (FNO, integer), Destination Name (DNAME, character), PRN Number (PRN, integer), Fare Amount (FARE, numeric).
  - Write MySQL statements for the following.
  - i) Display Flight Number, Destination Name and Fare Amount from this table.
  - ii) Display Flight Number and Fare Amount for the records where Fare Amount is below the average Fare Amount.
  - iii) Display PRN Number, Destination Name for the records where Fare Amount is equal to the Highest Fare Amount.
  - iv) Display Destination Name, maximum Fare Amount and total Fare Amount from the table for each Destination Name.
  - v) Display all the rows from this table in the descending order of Fare Amount.
- (b) There exists a table ABPCOLLEGE containing columns Roll Number (RNO, integer, primary key), Name (SNAME, character), Class (CLASS, character). There exists another table RESULT containing columns Roll Number (RNO, integer, primary key), Total marks (TOTAL, integer), Percentage (PERCENTAGE, integer) and Grade (GRADE, character). Write MySQL statements for the following.
  - i) Display Name, Class, Total marks and Grade of a student with Total Marks more than 560 using both the tables.
  - ii) Display Name, Class and Grade of students getting "O" Grade using both the tables.
  - iii) Display Roll number and Total marks of students who have scored more than average Total Marks using table RESULT.
  - iv) Display Roll Number and Name of students whose Roll Number is divisible by 7 using table ABPCOLLEGE,
  - v) Display all the records from the table ABPCOLLEGE of the class "T.Y.B.COM."
- Q4. (B)
- Answer any one sub-question from (c), (d) in MySQL

(7)

- (c) There exist a table called BATAS containing columns Employee Name (ENAME, character), Department Name (DEPT, character), Date of Joining (DOJ, date), Salary (SALARY, numeric) and Age (AGE, integer).
  - Write MySQL statements for the following:

    i) Display Department Name total salary and average
  - i) Display Department Name, total salary and average Salary for each Department.
  - ii) Display Date of Joining, minimum and maximum of the Salary as per date of Joining.
  - iii) Display all the rows where the Salary is equal to maximum Salary.
  - iv) Display Employee Name, Department Name and Salary where Age is more than 55.



(8)

(d) There exists a table TAX having the columns Permanent Account Number (PAN, integer), Name (NAME, character), City (CITY, character), Taxable Income (INC, integer) and Income Tax (ITAX, integer).

Write MySQL queries for the following.

- i) Display all the rows from this table where the first letter in the Name is 'U'.
- ii) Display all the rows from this table in the descending order of Taxable Income.
- iii) Display the columns Permanent Account number, Name and Income Tax from this table.
- iv) Display Permanent Account number, Name and Taxable Income from this table where Income Tax is more than 200000.
- v) Display all the rows from this table.
- vi) Display the total Income Tax collected from this table and label it as TOTAL TAX.
- vii) Display Name, City and Taxable Income of the Employee whose name is "Kalpesh Joshi".
- Q5. (A) Answer *any one* sub-question from (a), (b) in MS-EXCEL

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

	A	Brook	CCASSES	D S	E
1	FNAME	GENDER	DEPARTMENT	CITY	SALARY
2	NIHAL ~	M. S.S.	EXPORT	PUNE	50000
3	GAYATRI	F	ADMIN	MUMBAI	80000
4	RAMYA	F	IT	NASIK	98000
5	SMITH	M	IT STORES	NASIK	70000
6	ALAN	M	EXPORT	PUNE	35000
7	SRUSHTI	$\mathbf{F} \otimes \mathbb{R}^{2}$	ADMIN	PUNE	74000
8	POOJA	F	EXPORT	MUMBAI	65000
9	SAIF	M	ADMIN	PUNE	63000
10	PRANAV	M	ADMIN	MUMBAI	78000

Write the steps to create a Pivot table showing the average salary and maximum salary department wise in column G.

(b) In the following worksheet the cost of machinery is entered in cell B2, number of years is entered in B3 and rate of depreciation is entered in cell B4

	A	В	C	D	Е	F
1	Contraction of		1813	YEARS	DEP	WDV
2	COST	1000000	7.5°	1		
3	YEARS	6	Ç.	2		
4	RATE	12%		3		
5	8.50 - J. W.	1,575,67		4		
6	4367	200		5		
7	163.65	0.00		6		

Write steps to obtain the year wise depreciation DEP and written down value WDV in columns E and F respectively where depreciation is computed using reducing balance method.

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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	C	D	E
1	NAME OF SALESMAN	SALES	COMMISSION	ADDITIONAL COMMISSION	TOTAL COMMISSION
2	Shantanu	58000	4	C. D. C.	280300
3	Vijay	23800	.0	8.86.618.38	18/2/2018
4	Bhavana	56000	49.6	3.50.20.00	7.500000
5	Karan	72300	5.6.5	18 18 18 18 18 18 18 18 18 18 18 18 18 1	3 5 x 8 1 3 6
6	Shiv	64200	7.57.47	18800333	CARRED.
7	Poornima	28000	18.8.23	8 8 8 8 C C C	C. C

Write the steps to calculate

- i) Commission at the rate of 15%.
- ii) Additional Commission at the rate of 20% or Rs.5000 whichever is maximum.
- iii) Total Commission = Commission +Additional Commission.
- (d) Explain the following built in functions in MS-EXCEL

1. PV()

2. NPER()

3. PPMT()

4. SUM()

5.MIN()

6.ABS()

7. ROUNDDOWN()

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