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

Time	: 21/	2 Hou	rs						Total Marks: 7	5
Note:	1) A 2) Fi	ll que gures	stions carry equal to the right indica	mai te r	rks and are co	ompul rks fo	sory. r a question.			
Q1.	(A)		Attempt any <i>t</i> r (True/False)				C. N. C.	in sprea	dsheet	(2)
		(a)	Shift key is use	d to	select a non-	conti	guous range.			1. J. C.
		(b)								0.72
		(c)	A pivot table is	a dy	ynamic sumn	ary o	f the data.			
	(B)	(1)	Attempt any <i>tv</i> (Multiple Choic	e)		30	8 2 2 3 8			(2)
		(d)	i)DECIMAL(7,2)	the )	ere should be ii)DECIMAL(	5 inte 5,2)	egers and 2 de iii)DECIMA	ecimal p L(2,5)	ositions we use iv)DECIMAL(2,7)	
		(e)	When one quer i) Mini query	y is	written withi	n ano	ther query it	is terme	ed as a	
		(f)	In MySQL, the o i) Ending with F	per	ii) Net query ator LIKE "% i) Starting wi	R" fin	iii) Sub que ds match for a iii) Containin	string	iv) Tied query iv) Containing R%	
	(C)		Attempt any six	ııca	tions, Networ	king	and Internet.	(True/F	n),(n),(o) Talse).	(6)
		(g)	The data transm	issi	on can take p	lace v	vithout a prot	ocol.		
		(h)	In client server	irch	iitecture, all r	esour	ces are contr	olled by	the server.	
		(i)	In ring topolog network.	y fa	ilure of one	node	will not affe	ct the f	unctioning of the	
		(j)	Coaxial cable car	ı be	used over lo	nger (	distances than	i twiste	d –pair cable.	
		(k)	A bridge is a dev smaller, more ef	ice	using which w	ve ca	n segment a la	arger ne	twork into two	
		(l)	IP addresses are							
		(m)	Face book is a se							
		(n)	Emails cannot be			ment	S.			
		(0)	Vishing uses Vol							
	D)		Attempt any <i>five</i> in Data Commun	sı	ub-questions tions. Networ	from	(p),(q),(r),(s)	,(t),(u),( (Multip)	v),(w)	(5)
		(p)	Anetwork s	oan:	s a number of	citie	s and countrie	es.	ie diloice)	
			i) LAN	State of the last	) MAN		i)WAN		None of these	
		(q)						s referre	ed to as the	
				100	ateway i	ii) Co	mmunication	channe	l iv) Transport	
		(r)	Intopole							
		(s)	i)Bus POP stands for	20 CO 10 E	Ring	111	i) Star	iv) No	ne of these	
			i) Post Office Pro			ii) P	ost Open Prot	ocol		
			iii) Post Operate				lone of these	.0001		
		(t)	As the data packe					lawore	harders are	
300			i) Added	ii)	Rearranged	iii)	Deleted		neaders are odified	
		(u)	The activity of up					1 7 1 1 1 1	Junieu	
			i) Blogging		Blogger		Presenter	iv) Ha	cking	
127					Page 1 of	-				

		(v)	is a met	a search engine			3.6
			i) Dogpile	ii) Google	iii) Alta Vista	iv) Yahoo	
		(w)	An IP address is	made up of	bits.		
			i) 64	ii)32	iii)16	iv) 8	
Q2.	(A)		Networking and	Internet.	from (a), (b) in Dat	a Communications,	(8)
		(a)	Explain i) MAN	ii) WAN			
		(b)	Write a note on	Bridge and Rout	ter.		
	(B)		Answer any one Networking and		from (c), (d) in Data	Communications,	(7)
		(c)	What is electron	ic mail? State a	dvantages and impo	ortance of e-mail.	
		(d)	Write short note	s on sniffing and	d spoofing.		
Q3.	(A)	(a)	Write MySQL sta Employee Numb character with va	tement to creat per (ENO, integ triable width 25	er, Primary key), columns, should no	SQL YROLL having the columns Employee Name (ENAME, t be empty), Date of Joining g 2 decimals, default value	(8)
		(b)	columns Donor I (DNAME, charac	dentity Number ter with width ariable width 1	er (DNO, Integer, P 20 columns), Dono 5 columns), Amoun	ABFOUNDATION having rimary key), Donor Name or Email Address (DEmail, t Donated (DAMT, integer,	
	(B)		Answer any one	sub-question f	rom (c),(d) in My	SQL	(7)
		(c)	Explain the follow 1)UPPER()	ving built-in fur 2)LTRIM( )		4) DATE()	
		3,25	5) ROUND()	6) POW()	7) MONTHNAME()		
		(d)	integer), Custon	ner Name (CN Cost (TCOST, in	AME, character), teger) and Date of I	Customer Number (CNO, Product Name (PNAME, Purchase (PURDT, date).	
			iii) Delete the rov iv) Add a new colv) Change the Pro	wing one row of AME PNAME PNAM	f data in this table.  TCOST PUT 2Pro 9000 20: ner number is 950. DISC, integer) at the IOKIA for Customer	end of the table FLIPKART name "Ramesh Shah".	



- 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 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.



(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.

(8)

	A	Brook	C ( C ( ) > - 3 (	D	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	Transa.	NASIK	70000
6	ALAN	M	EXPORT	PUNE	35000
7	SRUSHTI	F	ADMIN	PUNE	74000
8	POOJA	F	EXPORT	MUMBAI	65000
9	SAIF	M	ADMIN	PUNE	63000
10	PRANAV	M	ADMIN	MIIMRAI	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

-81	A	В	C	D	E	F
1	J. C. J. C.	14600	300	YEARS	DEP	WDV
2	COST	1000000	7.5°	1		
3	YEARS	6	Ç.	2		
4	RATE	12%		3		
5	827.238	1,575,67		4		
6	1.0.5.2	250		5		
7	1000	0.3		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.



Q5. (B)

Answer any one sub-question from (c), (d) in MS-EXCEL

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

	A	В	C	D	Е
1	NAME OF SALESMAN	SALES	COMMISSION	ADDITIONAL COMMISSION	TOTAL COMMISSION
2	Shantanu	58000	6	40000 F800	18 18 18 18 18 18 18 18 18 18 18 18 18 1
3	Vijay	23800	.0	8,800000	1888 4888
4	Bhavana	56000	29.05	18 18 19 19 18 E	7,900000
5	Karan	72300	200	12000000	2000
6	Shiv	64200	V7.57.47.	10 8 D. O. S. S. S.	CARRED
7	Poornima	28000	25.88.25	8-9-9-8-CC	10000 E

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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