	D	ura	tion: 2½ Hours	Max Marks: 75	
					5
Note	:	Al	ll questions are compulsory	15	10
				A STATE OF THE STA	6
<b>Q</b> 1	$\mathbf{A}$		Attempt any Two sub questions from a),b) & c) in MS-Excel	C, C, TO	2
•			(True or False)		
		a	A page number can be assigned using header / footer option	10	
		b	A formula may starts with any symbol;		Ś
		c	Data can be stored on only one column	43	0)
					2)
	В		Attempt any Two sub questions from d),e) and f) in My SQL		2
			(Multiple Choice)	The state of the s	
		d	The query Select * from Pay will display rows	100	
			1) All 2) First Two 3) Last Two	4) Middle Two	5
		e	The function used to get the remainder of x divided by y is	25	7
			1) Pow(X) 2) Mod(X,Y) 3) Abs(X)	4) Sqrt(X,Y)	\ /
		f	To view the structure of the table Exam the statement is		
		•	1) Desc Exam  2) Show Exam  3 List Exam	4 Select Exam	
			Attempt any Six sub questions from g),h),i),j),k),l),m),n), and o)		4
	$\mathbf{C}$	4	Networking and Internet	A A A A A A A A A A A A A A A A A A A	6
		70	(True or False)		80°
	. 5	ъ, <sub>с</sub>	AND, OR, NOT are Boolean search operators	£ '80, T	Š
	45	5 h	The opening page of website is called as Home page		
	(),	i	Google is a Meta search engine	95	
200	)	i	It is easy to add / remove a node in star topology	196	
1000			A blog is digital diary		
<b>b</b>		3	HTTP is a protocol on the internet	20 15 X	
ζ-	10	m	Web pages are created using HTML		
	200	n	Peer to Peer network are designed for more than 100 users	00	
16	) ·	U	Data transmission can take place without a protocol		
VJ.		U,	Data transmission can take place without a protocol		
0,		4	Attempt any Five sub questions from p),q),r),s),t),l),u),v), and w	() in Data	
	$\mathbf{D}_{\wedge}$	Syl	Communication, Networking and Internet	) III Data	5
	200	)	(Multiple Choice)	V	
	3	n	The part before the @ symbol in an email address is		
. 9	Y	p	a) Domain name b) User name c) Sub domain	d) Protocol	
45		1	name	d) Hotocol	
1. T		9	Encryption and Decryption are responsible oflayer of 0	OSI model	
\	14	<b>P</b>	a) Session b) Presentation c) Application		
	A DIE	W	Any device that is connected to a network is called a	d) Transport	
5	5	•	a) Client b) Server c) Manager	d) Node	
(A)			Which of the following is not a topology	d) Node	
A		3	a) Star b) Satellite c) Bus	d) Ring	
X		4	The full form of URL is Uniform Resource	d) Kilig	
				d) I ana	
	N. D.P		a) Library b) Locator c) Link	d) Lane	
	V )	u	The network spanning a single organization is	a) utmi	
V, N		(	a) LAN b) MAN c) WAN	d) HTML	
436		V1	The fastest media is	do di Winalasa	
2,		5.4	a) Twisted pair b) Fiber Optics c) Coaxial cab	ole d) Wireless	
7	4	W	In LAN main computer is called as a) Nada	d) Want Ctati	
	CA		a) Master Computer b) File Server c) Node	d) Work Station	

Attempt any one sub questions from a) & b) in Data Communication, Networking and Q2Internet (i) HUB (ii) Co-axial Cable Write short notes on What is data communication? Explain different components of data communications system? Attempt any one sub questions from c) & d) in Data Communication, Networking and В Internet c Explain the following:(i) Web Browser (ii) Hot Spot **d** What is Cyber Crime? What are the different types of Cyber Crimes? Answer any one sub question from a) and b) in My SQL  $\mathbf{03}$ Write MySQL statement to create table employee personal detail (EMP\_PERSONAL). Columns in the table: Employee no. (Emp\_no INT Primary key), residential address( Addr variable length of character 10, phone number(Ph\_no character(10), mobile number(Mobile Character 10), Marital status(Marital\_StatusEnum (Y/N)), spouse name(Spouse Variable length of character 5); Write MySOL statement to create a table Library Columns in the table: : Admission number (Adm\_noInt Primary key Auto Increment, Book name (Bookname character) 50), accession no (Acc no Int), date of issue (Dtofissue Date), authors name (Auther Character 20), Number of Pages (Pages Int). В Answer any one sub question from c) and d) in My SQL There is a table Pay\_acnts where e\_id is employee identification no., fname and IName are first and last names, desig his designation, dob is date of birth, join\_date is date of joining and basic is Basic pay There is a table Pay\_acnts where e\_id is employee identification no., fname and lName are first and last names, design his designation, dob is date of birth, join\_date is date of joining and basic is Basic pay Write queries to perform the following: i) To display employee idn, first name, last name and department of those in sales department. ii) To display employee idn, firstname, last name and department of those in sales department in the alphabetical order of first name. iii) To display employee idn, firstname, last name and basic of those whose basic is less than 10000. iv) To display first name, last name and department of those where first name begins with the letter ...a". v) To display first name last name and department of those in sales department and first name begins with the letter "A". Explain the following inbuilt function in My SQL 1)CONCAT() 2) LOWER() 3) DAYNAME() 4) TRIM() 5) LTRIM() 6) POW() 7) MID() Answer any one sub question from a) and b) in My SQL There exists a table INTERNET having column identification number (ID, integer), customer name (CNAME, character), address (ADDR, variable character), type of connection (TOC, character) and units consumed (UNITS, integer). Write MySQL queries for the following i) Display all the rows in the descending order of units consumed ii) Display all the rows when the units consumed are above 200

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are below the average units consumed

are equal to the highest units consumed

type of connection

iii) Display identification number, name and units consumed where the units consumed

iv) Display a customer's name, address and units consumed where the units consumed

v) Display type of connection and total number of such connections are grouped by

- b There exists a table DEPARTMENT containing columns employee number (ENO, integer), employee name (ENAME, Character), Salary (SAL, 4 integer and 2 decimal places). There exists another table BRANCH containing the columns employee number (ENO, integer) gender (GEN, character) and date of joining (DOJ, date). write MySQL statements to
  - i) Display the employee name and gender from these tables.
  - ii) Display employee numbers, employee name and date of joining from this table for those employees whose salary is above 45000
  - iii) Display employee number, employer name gender and date of joining from this table for those employees whose date of joining is after April 10 2021
  - iv) Display the structure of the table DEPARTMENT
  - v) Display the name and salary from the table DEPARTMENT
- **B** Answer any one sub question from c) and d) in My SQL
  - c There exist a table SPECIALIZATION with columns roll number (RNO, integer), name of the student (SNAME, Character), subject offered (SUB, character) and marks obtained in TY BCom examination (MARKS, integer) write MySQL queries for the following:
    - i) Display all the rows in ascending order of roll numbers and descending order of marks and
    - ii) Display all the rows from the table
    - iii) Display all the rows where the subject offered is advertising
    - iv) Display all the rows which contains 'sa' anywhere in the name of the student
    - v) Display roll number and name of the student in alphabetical order of the names
    - vi) Display all the rows where the marks obtained are 50 or more
    - vii) Display roll number name and subject offered where roll numbers are below 50
  - d There exist a table COMPANY Containing columns Identity Number(ID, integer), name of the worker (NAME, character), department name (DEPT, character), provident fund (PF, numeric) and date of salary (DOS, date).

Write MySQL queries for the following

- i) Display the department name, minimum provident fund amount and total provident fund amount grouped as per department
- ii) Display all the rows where identity number is divisible by 3
- iii) Display the department name, average of PF amount and maximum of the PF amount grouped as per department

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- iv) Display the identity number, name of the employee and PF amount where the PF amount is below average PF amount
- O 5 A Answer any one sub question from a) and b) in MS-EXCEL
  - a The following data has been entered in a worksheet.

	A	В	С	D	Е	F	G
	NAME	BASIC	HRA	DA	GROSS	TAX	NET
1	NISHA	35000	te	10			
2	ASHA	18000	0	15			
3	USHA	24000		VOI.			
4	DIKSHA	32000	q	0			
5	RAKSHA	30000	(8)				

Write the steps to obtain

- 1) HRA as 30% of the Basic or 10,000 whichever is less in column C
- 2) DA as 50% of the Basic in column D.
- 3) GROSS as BASIC+HRA+DA in column E.
- 4) TAX as 10% of GROSS in column F.
- 5) NET=GROSS-TAX in column G.

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**b** For the following spreadsheet

Write steps to create report of class wise highest percentage, lowest percentage, and

average percentage

	A	В	C	D
1	ROLL NO	NAME	CLASS	PERCENTAGE
2	34	DARSHIT	FY	54
3	78	AMAN	SY	87 4
4	45	MALHAR	FY	63
5	12	KARISHMA	TY &	80
6	15	SRIDEVI	TY	72
7	24	JOHN 🚫	SY	66
8	91	AKBAR	FY	48

**B** Answer any one sub question from c) and d) in My SQL

c The following data has been entered in a worksheet

_					
		A	В	C	D
\	1	Item	Purchase Price	Qty 💸	Profit Amt
	2	Computer	5000	40	20, 45
	3	Monitor	4000	8	
	4	Printer	3000	2	300
	5	Keyboard	1000	6	198
1	6	É ,	(V) (S)	Total Profit	99
	7	Profit (%)	5 40		15

Write the steps to find

- 1 Profit amount in column D
- 2 Total profit in cell D6.

d Explain the following built-in functions in MS-EXCEL

- 1 PPMT()
- 2 INT()
- 3 ABSO
- 4.ROUND()

- 5 FV(
- 6. CEILING()
- 7. MAX()

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