

INDIAN SCHOOL DARSAIT FIRST TERM EXAM- SEPTEMBER, 2018 COMPUTER SCIENCE (083)



ANSWER SCHEME

1.	a)	Explain in brief the purpose of function prototype with the help of a suitable example. A function prototype is a declaration of the function that tells the program about the type of the value returned by the function and the number and type of arguments.	1
		Eg: intabsval(int a); intgcd(int n1, int n2);	1
	b)	Jayapriya has started learning C++ and has typed the following program. When she compiled the following code written by her, she discovered that she needs to include some header files to successfully compile and execute it. Write the names of those header files, which are required to be included in the code. void main() { float A,Number,Outcome; cin>>A>>Number; Outcome=pow(A,Number); cout< <outcome<<endl; }</outcome<<endl; 	1
		iostream.h math.h	
	c)	Rewrite the following C++ code after removing any/all syntactical errors with each correction underlined. Note: Assume all required header files are already being included in the program. #define Equation(p,q)=p+2*q void main() { float A=3.2;B=4.1; C=Equation(A,B); cout<<'Output='< <c<<endl; } #define Equation(p,q)p+2*q void main() { float A=3.2;B=4.1; float A=3.2;B=4.1; float A=3.2;B=4.1; float C; C=Equation(A,B); cout<<'Output=''<<c<<endl; }</c<<endl; </c<<endl; 	2

d)	Find and write the output of the following C++ program code : Note: Assume all required header files are already included in the program.	2
	typedef char STRING[80]; void MIXITNOW(STRING S)	
	int Size=strlen(S); for(int I=0;I <size-1;i+=2)< td=""><td></td></size-1;i+=2)<>	
	char WS=S[I]; S[I]=S[I+1]; S[I+1] =WS;	
	for(I=1; I < Size; I+=2) if(S[I]>='M' && S[I]<='U') S[I]='@';	
	} void main() {	
	STRING Word="CRACKAJACK"; MIXITNOW(Word); cout< <word<<endl;< td=""><td></td></word<<endl;<>	
	}	
	RCCAAKAJKC	
e)	Find the output of the following program :	3
	<pre>#include<iostream.h> void in(int x,int y, int &z)</iostream.h></pre>	
	$\{x + = y;$	
	y—;	
	z*=(x-y);	
	}	
	void out(int z,int y, int &x)	
	{ x*=y;	
	y++; z/=(x+y);	
	$\left\{ \left\{ \left\{ X+Y\right\} \right\} \right\}$	
	void main()	
	{ int a=20, b=30, c=10;	
	out(a,c,b);	
	cout< <a<<"#"<<b<<"#"<<cendl; in(b,c,a);</a<<"#"<<b<<"#"<<cendl; 	
	cout << a << "@" << b << "@" << c << "@" << endl;	
	out(a,b,c);	
	cout< <a<<"\$"<<b<<"\$"<<cendl;< td=""><td></td></a<<"\$"<<b<<"\$"<<cendl;<>	
	}	
	20#300#10#	
	6020@300@10@	
	6020\$300\$3000\$	

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•	a)	How does OOP overcome the shortco	oming of traditional programming approaches?	1			
			to overcome the shortcomings of traditional programming app				
		 OOPs is closer to real world mod 					
			objects can be well-represented through inheritance.				
		 Data can be made hidden or put security. 	blic as per the need. Only the necessary data is exposed enhan				
		 Increased modularity adds ease 	to program development.				
			rough designed interface in a way suited to the program.				
	b)	What is the difference between #defin	ne and const? Explain with a suitable example.	2			
			or directive; the preprocessor replaces those macros by				
			ees it. Think of it as an automatic search and replace of				
		your source code. #define SOP(x) (x)*(x)					
		#define SQR(x) $(x)^*(x)$					
			an actual variable in the language, which you can use				
			ress, pass it around, use cast it, convert it, etc.				
		constint a=10;					
	c)		find the possible output(s) from the options (i)to (iv)	2			
			n and the minimum values that can be				
		assigned to the variable CHANGER.					
		Note : • Assume all the required header file	s are already being included in the code.				
		• The function random(n) generates a					
			C				
		void main()					
		randomize();					
		int CHANGER;					
		CHANGER=random(3);					
		char CITY[][25]={"DELHI","MUMBAI","KOLKATA","CHENNAI"};					
		for(int I=0;I<=CHANGER;I++)					
		for(int J=0;J<=I;J++)					
		cout< <city[j]; cout<<endl;< td=""><td></td><td></td></endl;<></city[j]; 					
		}					
		(i)	(ii)				
		DELHI	DELHI				
		DELHIMUMBAI	DELHIMUMBAI				
		DELHIMUMBAIKOLKATA	DELHIMUMBAIKOLKATA				
			DELHIMUMBAIKOLKATACHENNAI				
		(iii)	(iv)				
		MUMBAI	KOLKATA				
		MUMBAIKOLKATA	KOLKATACHENNAI				

 1		
	Possible output- (i)	
e)	Find the output of the following program:	3
-,		
	struct GAME	
	{ int Score, Bonus; };	
	void Play(GAME &g, int N=10)	
	g.Score++;	
	g.Bonus+=N;	
	}	
	void main()	
	{	
	GAME $G = \{110, 50\};$	
	Play(G,10);	
	cout< <g.score<<":"<<g.bonus<<endl;< td=""><td></td></g.score<<":"<<g.bonus<<endl;<>	
	· · · · · · · · · · · · · · · · · · ·	
	Play(G);	
	cout< <g.score<<":"<<g.bonus<<endl;< td=""><td></td></g.score<<":"<<g.bonus<<endl;<>	
	Play(G,15);	
	cout< <g.score<<":"<<g.bonus<<endl;< td=""><td></td></g.score<<":"<<g.bonus<<endl;<>	
	}	
	111:60	
	112:70	
	113:85	
 f)	Bring out the difference between actual and formal argument with an example.	2
1)	Actual arguments:	2
	The arguments that are passed in a function call are called actual arguments. These arguments	
	are defined in the calling function.	
	Formal arguments:	
	The formal arguments are the parameters/arguments in a function declaration. The scope of	
	formal arguments is local to the function definition in which they are used. Formal arguments	
	belong to the called function. Formal arguments are a copy of the actual arguments. A change	
	in formal arguments would not be reflected in the actual arguments.	
	Example:	
	#include <stdio.h></stdio.h>	
	void sum(int i, int j, int k);	
	/* calling function */	
	int main() {	
	$\operatorname{int} a = 5;$	
	// actual arguments	
	sum(3, 2 * a, a);	
	return 0;	
	}	
	/* called function */	
	/* formal arguments*/	
	void sum(int i, int j, int k) {	
	int s;	
	s = i + j + k;	
	s = 1 + j + k, printf("sum is %d", s);	
)	
	$\frac{1}{1}$	
	Here 3,2*a,a are actual arguments and i,j,k are formal arguments.	
		2

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3.	a)	Find and write the output of the following C++ program code:	
		Note: Assume all required header files are already being included in the program.	3
		class Share	
		{	
		long int Code;	
		float Rate;	
		int DD;	
		public:	
		Share(){Code=1000;Rate=100;DD=1;}	
		void GetCode(long int C,float R)	
		Code=C;	
		Rate=R;	
		void Update(int Change,int D)	
		Rate+=Change;	
		DD=D;	
		}	
		void Status()	
		{ cout<<"Date:"< <dd<<endl;< td=""><td></td></dd<<endl;<>	
		cout<< Date: < <dd<<endi, cout<<code<<"#"<<rate<<endl;< td=""><td></td></code<<"#"<<rate<<endl;<></dd<<endi, 	
		yoid main()	
		Share S,T,U;	
		S.GetCode(1324,350);	
		T.GetCode(1435,250);	
		S.Update(50,28);	
		U.Update(25,26);	
		S.Status();	
		T.Status();	
		U.Status();	
		}	
		Date:28	
		1324#400	
		Date:1	
		1435#250	
		Date:26	
		1000#125	
	b)	Observe the following program carefully and attempt the given	2
		questions:	
		#include <iostream.h></iostream.h>	
		#include <conio.h></conio.h>	
	1	#include <stdlib.h></stdlib.h>	
	1	void main()	
	1	{	
	1	clrscr();	
	1	randomize();	
	1	char courses[][10]={"M.Tech","MCA","MBA","B.Tech"};	
		int ch;	

	for(int $i=1;i<=3;i++$)	
	{	
	ch=random(i)+1;	
	cout< <courses[ch]<<"\t";< th=""><th></th></courses[ch]<<"\t";<>	
	} getch();	
	I. Out of all the four courses stored in the variable courses, which course will never be displayed in the output and which course will always be displayed at first in the output? II. Mention the minimum and the maximum value assigned to the variable ch?	
	I. M.Tech will never be displayed in the output.	
	MCA will always be displayed at first in the output.	
	II. Minimum value of ch=1 • Maximum value of ch=3	
	• Maximum value of ch=3	
c)	Write a C++ program to find the volume of a circle, sphere and a cylinder. Use the concept of	
,	Function Overloading.	3
	#include <iostream.h></iostream.h>	
	#include <conio.h></conio.h>	
	const float pi=3.14;	
	float vol(float r) //Circle	
	return $(4/3)$ *pi*r*r;	
	<pre>} float vol(float r,float h) //Cylinder </pre>	
	return (pi $*r*r*h$);	
	float vol(int r)//sphere	
	return (4*pi*r*r);	
	void main()	
	float l,r,b,h,t;	
	clrscr();	
	t = vol(1.5);	
	cout<<"\n\nVolume of Circle: "< <t; t=vol(10.5,3.6);</t; 	
	cout<<"\n\nVolume of Cylinder: "< <t;< td=""><td></td></t;<>	
	t=vol(3);	
	cout<<"\n\nVolume of Sphere: "< <t;< td=""><td></td></t;<>	
	getch();	
(F	}	2
d)	Rewrite the following program after removing syntactical errors (if any). Underline each correction.	2
	#include <conio.h></conio.h>	
	#include <iostream.h></iostream.h>	
	#include <string.h></string.h>	
1	#include <stdio.h></stdio.h>	
	class product	

			1
		int product_code,qty,price;	
		char name[20];	
		public:	
		product(){	
		product_code=0;qty=0;price=0;	
		name=NULL;	
		}	
		void entry()	
		{	
		cout<<"\n Enter code,qty,price";	
		cin>>product_code>>qty>>price;	
		gets(name);	
		}	
		void tot_price() {return qty*price;}	
		};	
		void main()	
		{	
		p product;	
		p.entry();	
		cout< <tot_price();< th=""><th></th></tot_price();<>	
		}	
		Compated Code	
		Corrected Code:	
		#include <iostream.h></iostream.h>	
		#include <string.h></string.h>	
		#include <stdio.h></stdio.h>	
		class product{	
		int product_code,qty,price;	
		char name[20];	
		public:	
		product(){	
		product_code=0;qty=0;price=0;	
		<pre>strcpy(name,NULL);}</pre>	
		void entry()	
		{	
		cout<<"\n Enter code,qty,price";	
		cin>>product_code>>qty>>price;	
		gets(name);	
		}	
		<pre>int tot_price() {return qty*price;}</pre>	
		};	
		void main(){	
		product p;	
		p.entry();	
		<pre>cout<<p.tot_price();}< pre=""></p.tot_price();}<></pre>	
4.	a)	Answer the questions i) and ii) after going through the following program.	2
4.	a)	Answer the questions i) and ii) after going through the following program: class Retail	2
		{ char Category[20]; char Itam[20];	
		char Item[20];	
		int Qty;	
		float Price;	

		Retail() //Function 1	
		{ strcpy(Category,"Cereal");	
		strcpy(Item,"Rice");	
		Qty=100;	
		Price=25;	
		}	
		public:	
		void Show() //Function 2	
		{ cout< <category<<"-"<<item<<":"<<qty<<"@"<<price<<endl;< td=""><td></td></category<<"-"<<item<<":"<<qty<<"@"<<price<<endl;<>	
		}	
		};	
		void main()	
		{ Retail R; //Statement 1	
		R.Show(); //Statement 2	
		}	
		i) Will Statement 1 initialize all the data members for object R with the values given in	
		the Function 1? (Yes Or No).Justify your answer suggesting the correction(s) to be made in	
		the above code.	
		ii) What shall be the possible output when the program gets executed? (Assuming, if	
		required-the suggested correction(s) are made in the program)	
		i) No, since the constructor Retail has been defined in private section. $\frac{1}{2}$	
		Suggested Correction: Constructor Retail() to be defined in public section of class.	
		$\frac{1}{2}$	
		ii) Cereal-Rice:100@25	
	b)	Define a class Tour in C++ with the description given below:	4
	0)	Private Members:	-
		TCode of type string	
		NoofAdults of type integer	
		NoofKids of type integer	
		Kilometres of type integer	
		TotalFare of type float	
		Public Members:	
		• A constructor to assign initial values as follows: TCode with the word "NULL"	
		NoofAdults as 0	
		NoofKids as 0	
		Kilometres as 0	
		TotalFare as 0	
		A function Assign Fang() which calculate and assign the value of the data member Total Fang	
		• A function AssignFare() which calculate and assign the value of the data member TotalFare	
		as	
		follows:-	
		For each Adult:	
		For each Kid the above Fare will be 50% of the Fare mentioned in the above table	
		For example:	
		If Kilometres is 850, NoofAdults = 2 and NoofKids = 3	
		Then TotalFare should be calculated as	
		NumofAdults $*$ 300 + NoofKids $*$ 150	
		i.e. $2 * 300 + 3 * 150 = 1050$	
		A function EnterTerre() to innert (1 1 0(1 1) 1 TO 1 N. CA 1)	
		• A function EnterTour() to input the values of the data members TCode, NoofAdults,	
1		NoofKids and	

	Kilometres; and invoke the AssignFare() function.	
	Knometres, and invoke the Assign are() function.	
	• A function ShowTour() will display the content of all the data members of a clam "Tour".	
	Ans:	
	class Tour	
	{ char TCode[5];	
	int NoofAdults;	
	int NoofKids; 1	
	int Kilometres;	
	float TotalFare;	
	public:	
	Tour()	
	{ TCode = "NULL";	
	NoofAdults = $0;$	
	NoofKids = 0; 1	
	Kilometres $= 0;$	
	TotalFare = 0;	
	<pre></pre>	
	void AssignFare()	
	{ if(Kilometres>=1000)	
	TotalFare = NoofAdults*500 + NoofKids*250;	
	else if(Kilometres>=500) 1	
	TotalFare = NoofAdults*300 + NoofKids*150;	
	else	
	TotalFare = NoofAdults*200 + NoofKids*100;	
	}	
	void EnterTour()	
	{ cin>>TCode;	
	cin>>NoofAdults;	
	cin>>NoofKids;	
	cin>>Kilometres;	
	AssignFare(); 1	
	}	
	void ShowTour()	
	{ cout< <tcode<< "="" "<<kilometres;<="" "<<noofadults<<="" "<<noofkids<<="" td=""><td></td></tcode<<>	
	cout< <totalfare; 1<="" td=""><td></td></totalfare;>	
	}	
	};	
c)	Consider the class definition given below and answer the following questions:	4
	class film	
	{ int filmid ;	
	int filmname;	
	int leadroles	
	public:	
	char leadroleinmale[30];	
	char leadroleinfemale[30];	
	film();	
	accept();	
	display();	
	};	
	class commercialfilm : public film	
	{ int no_of_songs;	
1	[(1

		flaot costpersong;	
		protected:	
		int typecode;	
		public:	
		char remake;	
		commercialfilm();	
		acceptcomm();	
		expenceonsong();	
		display();	
		class artfilm : private film	
		{ char theme[50];	
		public:	
		artfilm();	
		acceptart();	
		display();	
		};	
		i) Which type of Inheritance is shown in the above example?	
		ii) What is the size of the object of class artfilm?	
		iii) Which data members are accessible through the object of class artfilm?	
		iv) Which class constructor will be called first at the time of declaration of an object of	
		class artfilm?	
		i) Hierarchical Inheritance is shown in the above example.	
		ii) 116 bytes	
		iii) None	
		film class constructor will be called first at the time of declaration of an object of class	
		artfilm.	
5.	a)	Write a function in C++ to count and display the number of lines not starting with alphabet	3
		'A' present in a text file "STORY.TXT".	-
		Example:	
		If the file "STORY.TXT" contains the following lines,	
		The rose is red.	
		A girl is playing there.	
		There is a playground.	
		An aeroplane is in the sky.	
		Numbers are not allowed in the password.	
		ramoers are not anowed in the password.	
		The function should display the output as 3	
		The function should display the output as 5	
		void countlines()	
		ifstream fin;	
		fin.open("STORY.TXT");	
		char str[80];	
		int count=0;	
		while(!fin.eof())	
		$\{ f_{i} \in \mathcal{F}_{i} \in \mathcal{F}_{i} \} $	
		fin.getline(str,80);	
		if(str[0]!='A')	
		count++;	
1		}	

	cout<<"Number of lines not starting with A are "< <count; fin.close();</count; 	
b)	} Write a definition for function BUMPER() in C++ to read each object of a binary file GIFTS.DAT, find and display details of those gifts, which has remarks as "ON DISCOUNT". Assume that the file GIFTS.DAT is created with the help of objects of class GIFTS, which is defined below : class GIFTS {	3
	<pre>int ID; char Gift[20],Remarks[20]; float Price; public: void Takeonstock() { cin>>ID;gets(Gift); gets(Remarks); cin>>Price; } void See() { cout<<id<<":"<<gift<<":"<<price<<"":"<<remarks<<endl; }<br="">char *GetRemarks() {return Remarks; } };</id<<":"<<gift<<":"<<price<<"":"<<remarks<<endl;></pre>	
	<pre>void BUMPER() { GIFTS G; ifstream fin; fin.open("GIFTS.DAT", ios::binary); while(fin.read((char*)&G, sizeof(G))) { </pre>	
	<pre>if(strcmp(G.GetRemarks(),"ON DISCOUNT")==0) G.See(); } fin.close(); //Ignore }</pre>	
c)	Find the output of the following C++ code considering that the binary file sp.dat already exists on the hard disk with 2 records in it. class sports { int id; char sname[20]; char coach[20]; public: void entry(); void show(); void show(); void writing(); void reading(); }s;	2
	<pre>void sports::reading() { ifstream i; i.open("sp.dat"); while(1) { i.read((char*)&s,sizeof(s)); if(i.eof()) break; else cout<<"\n"<<i.tellg(); <="" pre="" }=""></i.tellg();></pre>	

		i.close();	
		<pre>} void main()</pre>	
		{	
		s.reading();	
		}	
		42	
		84	
	d)	What is the difference between seekg() and tellg()? Explain with an example. SEEKG() \rightarrow is used to move the get pointer to a desired location with respect to a reference point.	2
		Syntax: file_pointer.seekg (number of bytes ,Reference point); Example: [math]fin.seekg(10,ios::beg);[/math]	
		TELLG() \rightarrow is used to know where the get pointer is in a file. Syntax: file_pointer.tellg();	
6.	a)	Explain what 'Views' in SQL are with an example. A view is a virtual table based on the result-set of an SQL statement.	1
		A view contains rows and columns, just like a real table. The fields in a view are fields from one or more real tables in the database.	1
		CREATE VIEW view_name AS	
		SELECT column1, column2, FROM table_name	
		WHERE condition;	
	b)	Explain UPDATE command with an example.	
		The UPDATE statement is used to modify the existing records in a table.	1
		UPDATE table_name SET column1 = value1, column2 = value2,	1
		WHERE condition;	1
		Any example.	
	c)	Write SQL queries for (i) to (iv) and find outputs for SQL queries (v) to (viii), which are based on the tables	

Note : Note : No 101 103 105 102 107 104 106 Note : (i)	PERKN VTYPH Ja: VTYPH Ja: Ve Ja: Ve Ja: Ve Ja: Ve Ve Ve Ve Ve Ve Ve Ve Ve Ve Ve Ve Ve	VTYPE VOLVO BU AC DELUXE ORDINARY I SUV CAR M is Freight Charg is Vehicle Type Tab NAME nish Kin dika Sahai run Ram hn Fen med Khan veena ipal Anya	BUS BUS des per k le : TR/ 2015 2016 2016 2016 2015 2016)	CODE 101 103 102 102 104	NOP 32 45 42
Note : • • • • • • • • • • • • •	102 103 105 104 : PERKN VTYPH -	AC DELUXE ORDINARY I SUV CAR M is Freight Charg is Vehicle Type Tab NAME nish Kin dika Sahai run Ram hn Fen med Khan veena ipal Anya	BUS BUS des per k le : TR/ 2015 2016 2016 2016 2015 2016	150 90 40 20 ilometer AVEL DATE -11-13 -04-21 -03-23 -02-13 -02-13 -01-10 -05-28	KM 200 100 350 90 75	101 103 102 102	32 45 42
Note : NO 101 103 105 102 107 104 106 Note :	105 104 : PERKM VTYPE Jai VTYPE Jai Ve 5 Ta 2 Joi 7 Ahi 1 Ra 5 Kr : NO is 7 KM is 1 NOP is TDATE	SUV CAR A is Freight Charg is Vehicle Type Tab NAME nish Kin dika Sahai run Ram hn Fen med Khan veena ipal Anya	es per k le : TR/ 2015 2016 2016 2016 2015 2016	40 20 ilometer AVEL -11-13 -04-21 -03-23 -02-13 -01-10 -05-28	200 100 350 90 75	101 103 102 102	32 45 42
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Note : • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1	PERKM VTYPE Ja: VTYPE Ja: V V V V Ahi C V Ahi C K K S K K S S K T D ATE	A is Freight Charg E is Vehicle Type Tab NAME nish Kin dika Sahai run Ram hn Fen med Khan veena ipal Anya Traveller Number Kilometer travelle	le : TR TI 2015 2016 2016 2016 2015 2016	ilometer AVEL DATE -11-13 -04-21 -03-23 -02-13 -02-13 -01-10 -05-28	200 100 350 90 75	101 103 102 102	32 45 42
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102 107 104 106 Note :	2 Joi 7 Ahr 1 Ra 5 Kr : NO is 7 KM is 1 NOP is TDATH	hn Fen med Khan veena ipal Anya Fraveller Number Kilometer travelle	2016 2015 2016	-02-13 -01-10 -05-28	90 75	102	
107 104 106 Note :	Ahr I Ra 5 Kr 5 Kr 1 Ra 5 Kr 1 Ra 5 Kr 1 Ra 5 Kr 1 Ra NO is 1 Ra NO is 1 Ra NOP is Ra TDATE	med Khan veena ipal Anya Fraveller Number Kilometer travelle	2015 2016	-01-10 -05-28	75		40
106 Note : • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1	5 Kr NO is 7 KM is 1 NOP is TDATH	ipal Anya Traveller Number Kilometer travelle			80		2
Note : • • • • • • •	: NO is 7 KM is 1 NOP is TDATH	Fraveller Number Kilometer travelle	2016	-02-06		105	4
(i) (ii)	NO is 7 KM is 1 NOP is TDATH	Kilometer travelle			200	101	25
(i) (ii)	KM is 1 NOP is TDATH	Kilometer travelle					
(i) (ii)	NOP is TDATI		d				
(i) (ii)	TDATE			elled in vehi	icle		
(ii)	To diep	E is Travel Date					
	NO.						-
		lay the NAME of a			the table	IRAVEL V	who
(iii)		elling by vehicle wi lay the NO and NA			rs from th	e table TR	AVEL who
	-	d between '2015-12					
(iv)	To disp	lay all the details fr	om table	TRAVEL fo	or the trav	vellers, who	o have
	travelle	d distance more tha	in 100 K	M in ascendi	ng order	of NOP.	
(v)	SELEC	T COUNT (*), CO	DE FRO	M TRAVEL	GROUP	BY CODE	HAVING
	COUN						
		T DISTINCT COD		,	 .		
		T A.CODE,NAME		FROM TRA	VEL A,V	/EHICLE I	B WHERE
		E=B.CODE AND	,				HEDE
		T NAME,KM*PEF E=B.CODE AND			L A, VEF	IICLE BW	HEKE
	A.COD	E-D.CODE AND	A.CODE	105 ,			
Ans	s:						
x) SEI xi) SEI	LECT N	O, NAME, TDATI AME FROM TRA O, NAME from TF 1''	VEL WI	HERE CODE	E=101 OF	CODE=1	,

		(xiii) COUNT (*) CODE 2 101 2 102					
		(xiv) DISTINCT CODE 101 102 103 104 105					
		(xv) CODE NAME VTYPE 107 Ahmed Khan 104 Raveena Car					
		(xvi) NAME KM*PERKM Tarun Ram 14000					
7.	a)	Give two examples of PAN and LAN type of networks. PAN- LAPTOP AND EARPHONE, PHONE AND SPAKER LAN- BUILDING WITH CMPUTER, COMPUTER LABS					
	b)	Which protocol helps us to browse through web pages using internet browsers? http	1				
	c)	Name any one internet browser. Mozilla firefox	1				
	d)	 Write two advantages of 4G over 3G Mobile Telecommunication Technologies in terms of speed and services. 4G – Higher data transfer rate Connects faster 	1				
	e)	Define cloud computing. The practice of using a network of remote servers hosted on the Internet to store, manage, and	1				
	f)	process data, rather than a local server or a personal computer.Categorize the following under Client Side and Server Side script category:(i) VB Script(ii) ASP (iii) JSP (iv) JavaScriptClient Side - VB ScriptJavaScript	1				
		Server Side – ASP, JSP					
	g)	Uplifting Skills Hub India is a knowledge and skill community which has an aim touplift the standard of knowledge and skills in the society. It is planning to setup itstraining centers in multiple towns and villages pan India with its head offices in thenearest cities. They have created a model of their network with a city, a town and 3villages as follows. As a network consultant, you have to suggest the best network related solutions fortheir issues/problems raised in (i) to (iv) keeping in mind the distances betweenvarious locations and other given parameters.	4				

