T	(One word)					
-	1 D 2 A 3 C 4 D 5 C 6 D 7 B 8 D 9 D 10 C 1	11 R 12 R 13 D 14 D 15 C				
TT	1. D 2.A 5.C 4.D 5.C 6.D /.B 8.D 9.D 10.C 11.B 12.B 13.D 14.D 15.C					
<u>1</u>	(1 wo Marks) (Q.10 24 is compulsory)	Course la management				
10	The Driver Memory	Secondary memory				
	the programs	permanently				
	 It is volatile in nature 	 It is non-volatile in nature 				
	Ex : RAM	Fx: Hard Disk CD or DVD				
17		• Ex. Hard Disk, CD of D VD				
17	1) $\overline{A+B} = \overline{A} \overline{B} 2) (\overline{A} \overline{B}) = \overline{A} + \overline{B}$					
	1) H + B = H + B - 2) (H + B) = H + B					
18	(1) File access level (2) System level (3) Network	c level				
19	 An invariant the loop body is known as a loop invariant 	iant.				
	 The property of the variables which remains unchanged b 	y the execution of the loop body is called as loop invariant.				
20	1.To indicate the function does not return a value 2.To	declare a generic pointer				
21	The declaration of a 2-D array is : data-type array_name	e[row-size][col-size];				
22	A cookie is a small piece of data sent from a website a	nd stored on the user's computer memory (Hard drive) by th				
	user's web browser while the user is browsing internet.					
23	 TSCII (Tamil Script Code for Information Interchar 	nge) is the first coding system to handle our Tamil language.				
	 This encoding scheme was registered in IANA (International Content of Conte	ernet Assigned Numbers Authority) unit of ICANN.				
24	Output: 1) 178.2525 2) 178					
III	(Three Marks) (Q.no 33 is compulsory)					
25	$i)1101010_2 + 101101_2 = 10010111_2$ $ii) - 22_{10} + 15_1$	$_{0} = -7_{10} = (11111001)_{2}$				
26	 Case analysis statement generalizes it to multiple ca 	ises.				
	Case analysis splits the problem into an exhaustive set of disjoint cases.					
	• Case analysis spirts the problem into an exhaustive	set of disjoint cases.				
	 For each case, the problem is solved independently. 	set of disjoint cases.				
	 For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1, S2, S3 and S4 	set of disjoint cases.				
	 For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 case C1 	set of disjoint cases. 4 are statements, a 4-case analysis statement has the form.				
	 For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 	set of disjoint cases. 4 are statements, a 4-case analysis statement has the form.				
	 For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 	set of disjoint cases. 4 are statements, a 4-case analysis statement has the form.				
	 Case analysis spins the problem into an exhaustive For each case, the problem is solved independently. <u>Ex:</u> If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 	set of disjoint cases. 4 are statements, a 4-case analysis statement has the form.				
	 For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 	set of disjoint cases.				
	 Case datafysis spins the problem into an exhlustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 	set of disjoint cases. 4 are statements, a 4-case analysis statement has the form.				
	 Case data yours spins the problem into an exhlustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 	set of disjoint cases. 4 are statements, a 4-case analysis statement has the form.				
	 Case data yours spins the problem into an exhaustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 	set of disjoint cases. 4 are statements, a 4-case analysis statement has the form.				
27	 Case data yes spins the problem into an exhaustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 	set of disjoint cases. 4 are statements, a 4-case analysis statement has the form.				
27	 Case datafysis spins the problem into an exhaustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character 	 set of disjoint cases. 4 are statements, a 4-case analysis statement has the form. toupper() This function is used to convert the given character 				
27	 Case analysis spins the problem into an exhaustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character is uppercase. 	 toupper() This function is used to convert the given character into its uppercase. 				
27	 Case analysis spins the problem into an exhaustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character is uppercase. General form: isupper(char c); 	 set of disjoint cases. 4 are statements, a 4-case analysis statement has the form. 4 are statements, a 4-case analysis statement has the form. 4 are statements, a 4-case analysis statement has the form. 4 are statements, a 4-case analysis statement has the form. 4 are statements, a 4-case analysis statement has the form. 4 are statements, a 4-case analysis statement has the form. 4 are statements, a 4-case analysis statement has the form. 4 are statements, a 4-case analysis statement has the form. 4 are statements, a 4-case analysis statement has the form. 5 are statements, a 4-case analysis statement has the form. 				
27	 Case datalysis spins the problem into an exhaustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character is uppercase. General form: isupper(char c); Ex: int n=isupper('A'); 	 toupper() This function is used to convert the given character into its uppercase. General form: toupper('k'); K 				
27 28	 Case datalysis spins the problem into an exhlustive for each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character is uppercase. General form: isupper(char c); Ex: int n=isupper('A'); The overloaded function must differ in the number of the problem is solved independent of the problem is solved independently. 	 toupper() This function is used to convert the given character into its uppercase. General form: toupper('k'); K of its arguments or data types. 				
27 28	 Case datalysis spins the problem into an exhlustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character is uppercase. General form: isupper(char c); Ex: int n=isupper('A'); The overloaded function must differ in the number of the return type of over loaded functions are not cor 	 toupper() This function is used to convert the given character into its uppercase. General form: toupper('k'); K tot arguments or data types. 				
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27 28 29	 Case datalysis spins the problem into an exhlustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character is uppercase. General form: isupper(char c); Ex: int n=isupper('A'); The overloaded function must differ in the number of the return type of overloaded functions are not cor The default arguments of overloaded functions are not cor It is a assignment operator) 	 toupper() This function is used to convert the given character into its uppercase. General form: toupper(char c); Ex: char c = toupper('k'); K of its arguments or data types. asidered for overloading same data type. nsidered as part of the parameter list in function over loading. 				
27 28 29	 Case datalysis spins the problem into an exhlustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character is uppercase. General form: isupper(char c); Ex: int n=isupper('A'); The overloaded function must differ in the number of the default arguments of overloaded functions are not cor The default arguments of overloaded functions are not cor It is a assignment operator) It is used to assign a value of variable or 	toupper() toupper() This function is used to convert the given character into its uppercase. Convert the given character into its uppercase				
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27 28 29	 Case datalysis spins the problem into the exhaustive For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 1. case C1 2. S1 3. case C2 4. S2 5. case C3 6. S3 7. else 8. S4 isuppr() This function is used to check the given character is uppercase. General form: isupper(char c); Ex: int n=isupper('A'); The overloaded function must differ in the number of the return type of overloaded functions are not cor The default arguments of overloaded functions are not cor The default arguments of overloaded functions are not cor The default arguments of overloaded functions are not cor Ex: is a assignment operator) It is used to assign a value of variable or expression. Ex: x = y (y value is assigned to x) 	 toupper() ★ This function is used to convert the given character into its uppercase. ★ General form: toupper('ta'); K ★ Ex: char c = toupper('ta'); K of its arguments or data types. nsidered for overloading same data type. nsidered as part of the parameter list in function over loading. = = It is a relational operator It used to compare two values and the result will be either true or false. Eg: x = = y (x value will be compared with y value) 				
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27 28 29 30	 Clase analysis spins the problem into an exhlust re- For each case, the problem is solved independently. Ex: If C1, C2 and C3 are conditions, and S1,S2,S3 and S4 case C1 S1 case C2 S2 case C3 S3 else S4 isuppr() This function is used to check the given character is uppercase. General form: isupper(char c); Ex: int n=isupper('A'); The overloaded function must differ in the number of the return type of over loaded functions are not cor The return type of overloaded functions are not cor The default arguments of overloaded functions are not cor It is a assignment operator) It is used to assign a value of variable or expression. Ex: x = y (y value is assigned to x) A structure without a name/tag is called anonymous Example: 	set of disjoint cases. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re statements, a 4-case analysis statement has the form. a re structure. a re structure. a re structure.				

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	• The student can be referred as reference name to the above structure and the elements can be accessed lik student.rollno, student.age and student.weight.						
31	 Access applications on the computer (Ex: Word processing, Games, Spread sheets, Calculators] Load any new program on the computer. 						
	3. Manage hardware such as printers, scanners, mouse, digital cameras etc.,						
	4. File management activities [Ex: Creating, Modifying, Saving, Deleting files and folders]						
32	 S. Change computer settings. [Colour scheme, Screen savers of our monitor etc] There are two types of microprocessors based on their instruction sets 						
	1) Reduced Inst	ruction Set Computers (R	ISC):				
	✤ Example: I	Pentium IV, Intel P6, AMI	D K6 and K7.				
	 2) Complex Instruction Set Computers (CISC) : ◆ Example: Intel 386 & 486, Pentium, Pentium II and III, and Motorola 68000. 						
22							
33	#include <iostre< th=""><th>am></th><th></th></iostre<>	am>					
	int main()	e stu,	Output:				
	{		1 4 7 10 13 16 19 22 25 28 31 34 37 40				
	int n;						
	for(int i=1;i<=4	0,i+=3)					
	cout< <i<< endl<="" td=""><td>;</td><td></td></i<<>	;					
	getch ();						
IV	} (Five Marks)						
34	Generation	Main Component	Merits/Demerits				
a	& Period	used					
	First	Vacuum tubes	✤ Big in size				
	Generation		 Consumed more power 				
	1940-1956		 Malfunction due to overheat 				
	C 1	T	Machine Language was used				
	Second	Transistors	 Smaller compared to First Generation Generated Lass Heat 				
	1956-1964		 Consumed less nower compared to first generation 				
			 Punched cards were used 				
			◆ First operating system was developed – Batch Processing and				
			Multiprogramming Operating System				
			Assembly language was used.				
	Third	Integrated	Computers were smaller,				
	Generation	Circuits (IC)	 Taster and more reliable Consumed lass power 				
	1904-19/1		 High Level Languages were used 				
	Fourth	Microprocessor	 Smaller and Faster 				
	Generation	Very Large Scale	 Microcomputer series such as IBM and APPLE were developed 				
	1971-1980	Integrated Circuits (VLSI)	 Portable Computers were introduced. 				
	Fifth	Ultra Large Scale	Parallel Processing • Super conductors				
	Generation	Integration(ULSI)	Computers size was drastically reduced.				
	1980 till data		Can recognise images and Graphics Introduction of Artificial Intelligence and Expert Systems				
			• Able to solve high complex problems including decision making				
			Logical reasoning				
	Sixth	Sixth Parallel and Distributed computing					
	Generation	eneration Second					
	In future	Auture Image: Development of robotics					
	 Natural Language Processing Davelopment of Vaice Researching Software 						
0.		■ ■ Development of Vo	nce keeognition Software				
Ur	The Distributed Operating System is used to access shared data and files that reside in any machine around the world usi						
	The user can handle the data from different locations.						
	The user ca	an handle the data from di	fferent locations.				
	The user caThe users ca	an handle the data from di can access as if it is availab	fferent locations. ble on their own computer.				

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	 A user at one location can make use of all the resource Many computer resources can be added easily in the number of the interaction with the customers and client Reduces the load on the host computer. 	es available at another location over the network. network ts.				
35 a	 1. Syntax Error: ◆ Syntax is a set of grammatical rules to construct a program. ◆ Every programming language has unique rules for constructing the source code. ◆ Syntax errors occur when grammatical rules of C++ are violated. Example: if you type as follows, C++ will throw an error. 					
	 2.Semantic Error: A Program has not produced expected result even the It may be happened by wrong use of variable / operat This means, program is grammatically correct, but it So, Semantic error is also called as "Logic Error". 3.Run-time error: A run time error occurs during the execution of a program it occurs because of some illegal operation that takes For example, if a program tries to open a file which does 	ugh the program is grammatically correct. or / order of execution etc. contains some logical error. gram. place. not exist, it results in a run-time error.				
OR	For example, if a program tries to open a file which does not exist, it results in a run-time error. ♦ Call by value method copies the value of an actual parameter into the formal parameter of the function. ♦ In this case, changes made to formal parameter within the function will have no effect on the actual parameter Example Program: Output #include <iostream> Enter the Value for A : 5 using namespace std; The Value inside display function (a * a) : 25 void display(int x) The Value inside main function: 5 { x=x*x; cout<<"\n\nThe Value inside display function (x*x):"<<x;< td=""> } int main() { int a; cout<<<"\n\nExample : Function call by value:"; cout<<<"\nNExample : Function call by value:"; cout<<<"\nNThe Value inside main function "<<a;< td=""> rature : cout<<<"\nNThe Value inside main function "<<a;< td=""></a;<></a;<></x;<></iostream>					
36 a	 Procedural Programming. It deals with algorithms Programs are divided into functions Less secure It is top down approach All data items are global. Emphasizes on algorithm. Overloading is not possible Implement programs in the form of sub programs. 	 Object Oriented Programming It deals with data Programs are divided into objects More secure It is bottom down approach Data abstraction is introduced. Emphasizes on data rather than algorithm. Overloading is possible Implement programs using classes and objects. 				
OR	 Ex. C, VB, COBOL, FORTRAN Constructor The name of the constructor must be same as that of the class. No return type can be specified for constructor. A constructor can have normatical list. 	 Ex. C++, JAVA, VB.NET, PTHON Destructor The destructor has the same name as that class prefixed by the tilde character '~'. It has no return type The destructor connect have accurate. 				
	★ A constructor can have parameter list.	The destructor cannot have arguments.				

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www.Padasalai.Net

www.Trb Tnpsc.Com

	 The compiler generates a constructor absence of a user defined constructor. The constructor is executed automatically object is created. 			 r, in the in the absence of user defined destructor, it is generated by the compiler. when the The destructor is executed automatically when the control reaches the end of class scope to destroy the object. 		
	♦ A	Allocated memo	ry space for the object	*	Destroy the object	
37a	[CHA]	PTER-3 BOOK	K BACK Q.NO: 3 TWO MA	ARK QUES	TION] [8,16,32,64 –bit microprocessor]	
OR	 There are different types of inheritance viz., Single Inheritance, Multiple inheritance, Multiple inheritance, Multiple inheritance, Multiple inheritance, Multiple inheritance. <u>1. Single Inheritance :</u> When a derived class inherits only from one base class, it is known as single inheritance. <u>2. Multiple Inheritance:</u> When a derived class inherits from multiple base classes it is known as multiple inheritance <u>3. Hierarchical inheritance:</u> 					
	 ★ W1 ★ Th ★ W1 5. Hyb ★ W1 ★ Hee or 	tilevel Inherita e transitive nati hen a class is de rid inheritance hen there is a co nce, it may be a Hierarchical, M	<u>Ince:</u> ure of inheritance is reflected erived from a class which is a <u>2</u> : ombination of more than one a combination of Multilevel a fultilevel and Multiple inherit	by this form derived cla type of inh- and Multipl- tance.	n of inheritance. uss – then it is referred to as multilevel inheritance eritance, it is known as hybrid inheritance. e inheritance or Hierarchical and Multilevel inher	e.
38	Crime	2	Function			
a	Cyber	Terrorism	Hacking, threats, and blackma	ailing toward	s a business or a person.	
	Cyber stalking Harassing th Malware Malicious pr sensitive da activity with		Harassing through online. Malicious programs that can p sensitive data, altering or hi activity without their permissi	rough online. rograms that can perform a variety of functions including stealing, encrypting or deleting ta, altering or hijacking core computing functions and monitoring user's computer pout their permission		
	Denial of service attack Overloading a system wit		Overloading a system with fal	ke requests s	that it cannot serve normal legitimate requests.	
	Fraud Manipulating data, for ex account.		Manipulating data, for examp account.	le changing	he banking records to transfer money to an unauthoriz	zed
	Harvesting A au		A person or program collects login and password information from a legitimate user to illegally gain access to others' account(s).			
	Intellectual propertytheft		Stealing practical or conceptual information developed by another person or company.			
	Salam	i slicing	Stealing tiny amounts of money from each transaction.			
	Scam		Tricking people into believing something that is not true.			
	Spam Spoofing		Distribute unwanted e-mail to a large number of internet users. It is a malicious practice in which communication is send from unknown source disguised as a source known to the receiver.			
OR	L.n	Given code	Correct Code		e	
	1.	%include(ios	tream.h) #i	include <ios< td=""><td>tream.h></td><td></td></ios<>	tream.h>	
	3.	Class A()	С	lass A		
	5.	public <u>:</u>	pi	public:		
	6.	int a1.a2:a3;		int a1,a2,a3;		
	7.	Void getdata[]		void getdata()		
	10.	10. $a2=13; a3=13;$		a2=14; $a3=13$; (In order to get the given output)		
	12.	12. }		;		
	13.	13. Class B:: public A()		lass B:: pub	lic A	
	15.	15. <u>PUBLIC</u>		public:		
	16.	16. voidfunc()		void func()		
	18. int b1:b2:b3;		in	int b1,b2,b3;		
	19. A::getdata[];		А	A::getdata();		
	22. a3=a3;		bí	b3=a3;		
	23.	cout< <b1<<'< td=""><td>\t'<<b2<<'t\'<<b3; co<="" td=""><td colspan="3">cout<<b1<<'\n'<<b2<<'\n'<<b3:< td=""></b1<<'\n'<<b2<<'\n'<<b3:<></td></b2<<'t\'<<b3;></td></b1<<'<>	\t'< <b2<<'t\'<<b3; co<="" td=""><td colspan="3">cout<<b1<<'\n'<<b2<<'\n'<<b3:< td=""></b1<<'\n'<<b2<<'\n'<<b3:<></td></b2<<'t\'<<b3;>	cout< <b1<<'\n'<<b2<<'\n'<<b3:< td=""></b1<<'\n'<<b2<<'\n'<<b3:<>		
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			}:		
	24	27 <i>j</i> 28 der1:func():		der:func():		

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Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com