

# WINTER – 2019 EXAMINATION MODEL ANSWER

#### Subject: Object Oriented Programming Using C++

Subject Code:

22316

#### **Important Instructions to examiners:**

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q. No	Sub Q.N.		Answer		Marking Scheme	
1.	a)		Attempt any <u>FIVE</u> of the following: State the difference between OOP and POP.			
	Ans.	Sr. No.	OBJECT ORIENTED PROGRAMMING (OOP)	PROCEDURE ORIENTED PROGRAMMING (POP)		
		1	Focus is on data rather than procedure.	Focus is on doing things (procedure).	Any two	
		2	Programs are divided into multiple objects.	Large programs are divided into multiple functions.	differen ces 1M	
		3	Data is hidden and cannot be accessed by external functions.	Data move openly around the system from function to function.	each	
		4	Objects communicate with each other through function.	Functions transform data from one form to another by calling each other.		
		5	Employs bottom-up approach in program design	Employs top-down approach in program design.		



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	6 Object oriented approach is Procedure oriented		
	used in C++ language. approach is used in C		
	language.		
<b>b</b> )	What is a class? Give its example.	2M	
Ans.	<b>Class</b> is a user defined data type that combines data and functions	Class	
	together. It is a collection of objects of similar type.		
	······································	definitio n 1M	
	Example:	10 1101	
	class Student		
		Correct	
	int rollno;		
	char name[10];	example	
	public:	<i>1M</i>	
	void getdata( );		
	void putdata( );		
	};		
	),		
<b>c</b> )	What is multilevel inheritance? Draw the diagram to show	2M	
()		<b>2</b> 1 <b>VI</b>	
	multilevel inheritance. using classes with data member and member function.		
<b>A</b>		DeCou	
Ans.	When a class is derived from another derived class then it is called as	Define	
	multilevel inheritance.	multilev	
		el	
	Class: College DM: college code	inherita	
	function: getcollege()	nce 1M	
	Class: Student DM: roll_no, name	Diagram	
	function: getstudent()	ĬM	
	Class: Result		
	DM: grade		
	function: getresult()		
<b>d</b> )	Explain use of scope resolution operator.	2M	
Ans.	It is used to uncover a hidden variable. Scope resolution operator	_	
	allows access to the global version of a variable. The scope resolution	Correct	
	operator is used to refer variable of class anywhere in program.	use 2M	
	:: Variable_name		
	OR		
	Scope resolution operator is also used in classes to identify the class		



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	_	

	class emp_info:public employee	
	int basic_salary;	
	public:	
	void getdata()	
	cout<<"Enter emp id";	Functio
	cin>>emp_id;	п
	cout<<"Enter name";	declarati
	cin>>name;	on 1M
	cout<<"Enter basic salary";	
	cin>>basic_salary;	
	}	
	void putdata()	
	cout<<"\nEmp_id="< <emp_id;< th=""><th></th></emp_id;<>	
	cout<<"\nName="< <name;< th=""><th></th></name;<>	
	cout<<"\nBasic Salary="< <basic_salary;< th=""><th></th></basic_salary;<>	
	}	
	};	
	void main()	
	emp_info e;	Maria
	clrscr();	Main
	e.getdata();	function
	e.putdata();	1M
	getch();	
c)	Write any four benefits of OOP.	<b>4</b> M
Ans.	Benefits of OOP:	
	1. We can eliminate redundant code and extend the use of existing	
	classes.	
	2. We can build programs from the standard working modules that	
	communicate with one another, rather than having to start writing	Any
	the code from scratch. This leads to saving of development time	four
	and higher productivity.	benefits
	3. The principle of data hiding helps the programmer to build secure	1M each
	programs that cannot be invaded by code in other parts of the	
	program.	
	4. It is possible to have multiple instances of an object to co-exist	
	without any interference.	
	5. It is possible to map objects in the problem domain to those in the	
	5. It is possible to map objects in the problem domain to those in the	



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d)	<ul> <li>program.</li> <li>6. It is easy to partition the work in a project based on objects.</li> <li>7. The data-centered design approach enables us to capture more details of a model in implementable form.</li> <li>8. Object-oriented systems can be easily upgraded from small to large systems.</li> <li>9. Message passing techniques for communication between objects makes the interface descriptions with external systems much simpler.</li> <li>10. Software complexity can be easily managed.</li> <li>Describe 'this' pointer with an example.</li> </ul>	4M	
Ans		Descript ion 2M	
	<pre>{     int a;     public:     void setdata(int x)     {         this -&gt;a=x;     }     void putdata()     {         cout&lt;<this -="">a;     } }; void main() {         sample s;     } }</this></pre>	Correct example 2M	



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		s.setdata(100);	
		s.putdata();	
		}	
		In the above example, this pointer is used to represent object s when	
		setdata () and putdata () functions are called.	
3.		Attempt any <u>THREE</u> of the following:	12
	a)	Write the applications of object oriented programming.	<b>4M</b>
	Ans.	Applications of object oriented programming are:	
		1) Real time systems	
		2) Simulation and modeling	Any
		3) Object-oriented databases	four
		4) Hypertext, hypermedia and expertext	correct
		5) AI and expert systems	applicati
		6) Neural networks and parallel programming	ons 1M
		7) Decision support and office automation systems	each
		8) CIM/CAM/CAD systems	
	b)	State the rules for writing destructor function.	<b>4M</b>
	Ans.	Rules for writing destructor function are:	
		1) A destructor is a special member function which should destroy	
		the objects that have been created by constructor.	Any
		2) Name of destructor and name of the class should be same.	four
		3) Destructor name should be preceded with tilde (~) symbol.	correct
		4) Destructor should not accept any parameters.	rules
		5) Destructor should not return any value.	1M each
		6) Destructor should not be classified in any types.	
		7) A class can have at most one destructor.	
	<b>c</b> )	What is inheritance? Give different types of inheritance.	<b>4M</b>
	Ans.	Inheritance:	
		The mechanism of deriving new class from an old/existing class is	~
		called inheritance.	Correct
		OR	explanat
		Inheritance is the process by which objects of one class acquired the	ion of
		properties of objects of another classes.	inherita
			nce 2M
		Syntax:	
		along desired along normal visibility we de here along were	
		class derived-class-name: visibility-mode base-class-name	
		//	







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		<ul><li>decrementing it will not make it to point to the next object of the derived class.</li><li>10. If a virtual function is defined in the base class, it need not be necessarily redefined in the derived class.</li></ul>		
4.	a) Ans.	Attempt any <u>THREE</u> of the following: What is parameterized constructor? A constructor that accepts parameters is called as parameterized constructor. In some applications, it may be necessary to initialize the various data members of different objects with different values when they are created. Parameterized constructor is used to achieve this by passing	12 4M	[
		arguments to the constructor function when the objects are created.  Example: class ABC {     int m;     public:     ABC(int x)     {         m=x;     }     void put()     {         cout< <m; 'm'.<="" 'obj'="" (="" (int="" )="" 10="" a="" abc="" abc,="" above="" accepts="" an="" and="" argument.="" as="" be="" class="" constructor="" created="" data="" displays="" example,="" for="" function="" in="" initialized="" invoke="" is="" m="" main()="" member="" obj(10);="" obj.put();="" object="" of="" one="" parameter.="" parameterized="" passed="" put="" td="" that="" the="" value="" void="" when="" which="" will="" with="" x)="" {="" }="" };=""><td>Corro descri on 4</td><td>pti</td></m;>	Corro descri on 4	pti



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<b>b</b> )	Write a program to sort an 1-d array in ascending order. (Note: Any other correct logic shall be considered)	<b>4M</b>	
Ans.	<pre>#include<iostream.h> #include<conio.h> void main() {     int arr[20];     int i, j, temp,n;     clrscr();     cout&lt;&lt;"\n Enter the array size:";     cin&gt;&gt;n;     cout&lt;&lt;"\n Enter array elements:";     for(i=0;i<n;i++)< pre=""></n;i++)<></conio.h></iostream.h></pre>	Correc array input 1M	,
	<pre>{     cin&gt;&gt;arr[i]; } for(i=0;i<n;i++) for(j="i+1;j&lt;n;j++)" if(arr[i]="" {="">arr[j])     {         temp=arr[i];         arr[i]=arr[j];         arr[j]=temp;     } }</n;i++)></pre>	Sorting of 1D array i ascendi g orde 2M	n in
	<pre>} cout&lt;&lt;"Sorted Array:"; for(i=0;i<n;i++) cout<<"\n"<<arr[i];="" getch();="" pre="" {="" }="" }<=""></n;i++)></pre>	Displa of sorte array 1M	ed
c) Ans.	Explain the friend function with proper example. Friend function: The private members of a class cannot be accessed from outside the class but in some situations two classes may need access of each	4M	



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other's private data. So a common function can be declared which can be made friend of more than one class to access the private data of more than one class. The common function is made friendly with all those classes whose private data need to be shared in that function. This common function is called as friend function. Friend function is not in the scope of the class in which it is declared. It is called without any object. The class members are accessed with the object name and dot membership operator inside the friend function. It accepts objects as arguments.	Correct explanat ion of friend function 2M
<pre>Example: Program to interchange values of two integer numbers using friend function. #include<iostream.h> #include<conio.h> class B; class A { int x; public: void accept() { cout&lt;&lt;"\n Enter the value for x:"; cin&gt;&gt;x; } friend void swap(A,B); }; class B</conio.h></iostream.h></pre>	Correct example 2M
<pre>class B {     int y;     public:     void accept()     {         cout&lt;&lt;"\n Enter the value for y:";         cin&gt;&gt;y;         }         friend void swap(A,B);     };         void swap(A a,B b)</pre>	



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	(	
	cout<<"\n Before swapping:";	
	cout<<"\n Value for x="< <a.x;< th=""><th></th></a.x;<>	
	cout<<"\n Value for y="< <b.y;< th=""><th></th></b.y;<>	
	int temp;	
	temp=a.x;	
	a.x=b.y;	
	b.y=temp;	
	cout << "\n After swapping:";	
	cout<<"\n Value for x="< <a.x;< th=""><th></th></a.x;<>	
	cout<<"\n Value for y="< <b.y;< th=""><th></th></b.y;<>	
	}	
	void main()	
	{	
	A a;	
	B b;	
	clrscr();	
	a.accept();	
	b.accept();	
	swap(a,b);	
	getch();	
1		43.4
d)	Write a program to count the number of lines in file.	<b>4</b> M
	(Note: Any other correct logic shall be considered)	
Ans.	#include <iostream.h></iostream.h>	
	#include <fstream.h></fstream.h>	Opening
	#include <conio.h></conio.h>	of file
	void main()	1M
	{	
	ifstream file;	Countin
	char ch;	$\boldsymbol{g}$
	int n=0;	number
	clrscr();	of lines
	file.open("abc.txt");	<i>2M</i>
	while(file)	
		Printing
	file.get(ch);	number
	$if(ch=='\n')$	of lines
	n(chi= (h)) n++;	in a file
		1M



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		<pre>} cout&lt;&lt;"\n Number of lines in a file are:"&lt;<n; file.close();<="" pre=""></n;></pre>	
		getch();	
5.	a)	Attempt any <u>TWO</u> of the following: Write a program to declare a class 'student' having data members as 'stud_name' and 'roll_no'. Accept and display this	12 6M
		data for 5 students.	
	Ans.	(Note: Any other correct logic shall be considered) #include <iostream.h> #include<conio.h></conio.h></iostream.h>	
		class student	
		int roll_no;	
		char stud_name[20];	Class
		public:	declarati
		void Accept();	on 2M
		<pre>void Display(); };</pre>	
		void student::Accept()	Accept
		{	() <i>1M</i>
		<pre>cout&lt;&lt;"\n Enter student's name and roll no\n"; cin&gt;&gt;stud_name&gt;&gt;roll_no;</pre>	
		<pre>cm&gt;&gt;stud_name&gt;&gt;ton_no, }</pre>	
		void student::Display()	
		{	Display
		cout< <stud_name<<"\t"<<roll_no<<"\n";< th=""><th>() <b>1M</b></th></stud_name<<"\t"<<roll_no<<"\n";<>	() <b>1M</b>
		void main()	
		{	
		student S[5];	
		inti;	
		clrscr(); for(i=0;i<5;i++)	
		{	Main ()
		S[i].Accept();	with
		<pre>} cout&lt;&lt;"Student details \n Student's Name \t Roll No\n";</pre>	array 2M



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b) Ans.	<pre>for(i=0;i&lt;5;i++) {   S[i].Display();   getch();   }   State and explain t   Visibility modes:         private         protected</pre>	he visibility m	odes used in	inheritance.		<b>6</b> M
	<ul><li>protected</li><li>public</li></ul>					
	Base class	Der	ived class vis	ibility	]	
	visibility	Private	Protected	Public	1	
	Private	Not	Not	Not	1	
		Inherited	Inherited	Inherited	]	
	Protected	Private	Protected	Protected		
	Public	Private	Protected	Public	]	
	<ul><li>'public mem</li><li>become 'priv</li><li>○ Therefore, th</li><li>can only be a</li></ul>	-	ected member f the derived otected mem member func	ers' of the bas class. bers of the bas ctions of derive	se class se class ed class	Explana tion 2M for each visibility mode
	<ul> <li>'protected r</li> <li>members' ar</li> <li>'public members'</li> <li>○ Therefore the</li> </ul>	class is publicl nembers' of nd 'public mer bers' of the deri ne public men poth the membe	base class nbers' of the ved class. nbers of the	becomes 'pr e base class l base class	can be	



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	as the objects of the derived class.	
	Syntax:	
	class derived: public base	
	1 //Members of derived class;	
	};	
	Protected:	
	• When a base class is protectedly inherited by a derived class, 'public and protected members' of the base class become 'protected members' of the derived class.	
	• Therefore the public and protected members of the base class can be accessed by the member functions of derived class as well as the member functions of immediate derived class of it	
	but they cannot be accessed by the objects of derived class	
	Syntax:	
	class derived: protected base	
	{	
	<pre>//Members of derived class; };</pre>	
c)	Write a program to declare a class 'book' containing data	6M
C)	members as 'title', 'author-name', 'publication', 'price'. Accept	UVI
	and display the information for one object using pointer to that	
	object.	
Ans.	( <i>Note: Any other correct logic shall be considered</i> ) #include <iostream.h></iostream.h>	
1 111,50	#include <conio.h></conio.h>	
	class book	
	{	Class
	char author_name[20];	declarati
	char title[20];	on 2M
	char publication[20];	
	float price; public:	
	void Accept();	
	void Display();	
	};	
	<pre>void book::Accept()</pre>	Accept
		() <i>1M</i>



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		<pre>cout&lt;&lt;"\n Enter book's title, author_name, publication and price \n:"; cin&gt;&gt; title &gt;&gt;author_name&gt;&gt; publication &gt;&gt; price; } void student::Display() { cout&lt;<title <<"\t"<<<br="" <<"\t"<<author_name<<"\t"<<publication="">price&lt;&lt;"\n"&lt;&lt;;&lt;br&gt;}&lt;br&gt;void main()&lt;br&gt;{&lt;br&gt;book b, *p;&lt;br&gt;clrscr();&lt;br&gt;p=&amp;b&lt;br&gt;p-&gt;Accept();&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;Display&lt;br&gt;() 1M&lt;br&gt;Main()&lt;br&gt;with&lt;br&gt;pointer&lt;br&gt;2M&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;6.&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;pre&gt;cout&lt;&lt;"title \t author_name \t publication \t price\n"; p-&gt; Display(); getch(); } Attempt any TWO of the following:&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;12&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;0.&lt;/th&gt;&lt;th&gt;a)&lt;/th&gt;&lt;th&gt;Attempt any &lt;u&gt;TWO&lt;/u&gt; of the following:&lt;br&gt;Write a program that copies contents of one file into another file.&lt;/th&gt;&lt;th&gt;12&lt;br&gt;6M&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;Ans.&lt;/td&gt;&lt;td&gt;&lt;pre&gt;(Note: Any other correct logic shall be considered) Assuming input file to be copied file1.txt contents are "Hello Friends" and file where the contents need to copy is file2.txt already created #include&lt;iostream.h&gt; #include&lt;conio.h&gt; #include&lt;fstream.h&gt; #include&lt;stdio.h&gt; #include&lt;stdio.h&gt; #include&lt;stdib.h&gt; void main() {     clmaer(); }&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;pre&gt;clrscr();&lt;br&gt;ifstream fs;&lt;br&gt;ofstream ft;&lt;br&gt;char ch, fname1[20], fname2[20];&lt;br&gt;cout&lt;&lt;"Enter source file name with extension (like files.txt) : ";&lt;br&gt;gets(fname1);&lt;br&gt;fs.open(fname1);&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;File&lt;br&gt;open&lt;br&gt;and&lt;br&gt;close&lt;br&gt;2M&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title></pre>	



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		1	
	if(!fs)		
	cout<<"Error in opening source file!!";		
	getch();		
	exit(1);	Logic	
		for copy	
	J		
	cout<<"Enter target file name with extension (like filet.txt) : ";	contents	
	gets(fname2);	<i>4M</i>	
	ft.open(fname2);		
	if(!ft)		
	{		
	cout<<"Error in opening target file!!";		
	fs.close();		
	0		
	getch();		
	exit(2);		
	}		
	while(fs.eof()==0)		
	{		
	fs>>ch;		
	ft< <ch;< th=""><th></th></ch;<>		
	∫		
	cout<<"File copied successfully!!";		
	fs.close();		
	ft.close();		
	getch();		
	}		
b)	Write a program to implement the following hierarchy using	6M	
	suitable member functions. Refer Figure No.2.		
	class: student		
	Data members:		
	7011-10, Mame.		
	and the second sec		
	class: test Class: sports		
	Data members: martist; Score		
	martesz;		
	class: result		
	Date member:		
	total		
	Fig. No. 2		



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A	<pre>ns. (Note: Any other correct logic shall be considered) # include <iostream.h> #include<conio.h> class Student {     int roll_no;     char name[10];     public:     void read_studentData()     {         cout&lt;&lt;"Enter student's roll no and name \n";         cin&gt;&gt;roll_no&gt;&gt; name;     }     void display_studentData ()</conio.h></iostream.h></pre>	Cla stud decla on 1	ent rati
	<pre>{     cout&lt;&lt;"\n roll_no\t name\n";     cout&lt;<roll_no<<"\t"<<name<<"\n"; cout<<roll_no<<"\t"<<name<<"\n";="" cout<ir="">     int marks1,marks2;     public:     void read_test()     {         cout&lt;&lt;"\n Enter test marks\n";         cin&gt;&gt;marks1&gt;&gt;marks2;     } }</roll_no<<"\t"<<name<<"\n";></pre>	Cla tes decla on 1	t rati
	<pre>void display_test() {     cout&lt;&lt;"\n test Marks \n Marks1 \t Marks2 \n";     cout&lt;<marks1<<"\t"<<marks2; class="" int="" pre="" score;<="" sports="" {="" };=""></marks1<<"\t"<<marks2;></pre>		



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<pre>public: void read_sportsData() { cout&lt;&lt;"\n Enter sport score\n"; cin&gt;&gt; score; } void display_sportsData() {</pre>	Class sports declarati on 1M
<pre>cout&lt;&lt;"\n sport score:"&lt;</pre>	



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c)	Write a program to overload the '-' unary operator to negate the values.	6M
Ans.	<pre>(Note: Any other correct logic shall be considered) #include<iostream.h> #include<conio.h> #include<string.h> class Number {     int x,y;     public:     Number (int a, int b)     {         a =x;         b =y;     }     void display()     {         cout&lt;&lt;"value of x="&lt;<x<"\n ();="" <="" \n="" after="" display="" getch="" n1.="" negation:";="" of="" pre="" value="" y="&lt;&lt;y;     }     void operator - ( )     {         x = - x;         y = - y;     }     };     void main ()     {         Number N1(5,6);         clrscr ();         N1. display ();         -N1;         cout&lt;&lt;" }=""></x<"\n></string.h></conio.h></iostream.h></pre>	Correct Program with output 6M