Question Bank

- 1.Compare procedural programming with object oriented programming for what type of application is the procedural programming is suitable and for what type OOP is suitable?Justify your answer.
- 2. Describe how data are shared by functions in procedure-oriented programs?
- 3. Distinguish between the following terms:
 - (a) Object and classes
 - (b) Data abstraction and data encapsulation
 - (c) Inheritance and polymorphism
 - (d) Dynamic binding and message passing
- 4. What do mean by abstract class and container class? Describe their use with the help of c++ program?
- 5. How does a main () function in c++ differ from main () in c?
- 6. When is an object created and what is its lifetime?
- 7. What is the basic difference between manipulators and ios member functions in implementation? Give examples.
- 8. How is the working of member function different from friend function and a non member function?
- 9. Explain the purpose of new and delete operator by using C++ program.
- 10. What do you mean by dynamic binding? How it is useful in OOP?
- 11. What is the difference between association aggregation and inheritance relationship?
- 12. What do you mean by operator overloading and method overloading? write a distance class which contains data members of distance in meters, centimeters and millimeters. The class must have overloaded operators for addition + and subtraction- respectively.
- 13 Illustrate the concept of inheritance by defining three classes student, exam and result, where result is inherited from exam and exam is inherited from student. write possible constructors to initialize the values. write a main function to test the constructor execution by creating objects.
- 14.Explain the following terms in the context of object oriented programming. Also explain how these concepts are implemented in C++ by giving an example program for each.
 - (a)Benefits of Data Abstraction
 - (b)Encapsulation

- (c) Virtual base class and when do we make it.
- (d) Polymorphism and its types.
- 15. Define a class student with the following specifications:

Adm_no integer

Sname 20 characters

Eng, math, science float (marks in three subjects)

Total float

Ctotal() a function to calculate eng + math + science marks

Public member functions of class student

Takedata() function to accept values for adm_no , sname, marks in eng, math, science and invoke ctotal() to calculate total.

Showdata() function to display all the data members on the screen

- 16. What is inline function? When will you make a function inline and why?
- 17. What is a pure virtual function? Explain use of pure virtual function with an example.
- 18.Explain the concept of default constructor, copy constructor and parameterized constructor with the help of suitable c++ program.
- 19. What is an exception? Explain how exceptions are handled in C++, with the help of an example program. When do we used multiple catch handlers?
- 20. When should a program throw an exception? What do you mean by rethrow an exception?
- 21. What is generic programming? How is it implemented in c++?
- 22.A template can be considered as a kind of macro. Then, what is the difference between them?
- 23. Distinguish between the term class template and template class.
- 24. Write appropriate statements to create a template class for Queue data structure in C++.
- 25.Distinguish between overloaded functions and function templates. Write a function template for finding the minimum value contained in an array.
- 26. Write a program in c++ to read 2 files simultaneously.
- 27. Write a program to creat a file emp.data with employee number, name, deduction and allowances as record fields. poen a file, read a record, calculate the salary and write back to the same file.

- 28. What are the various classes available for file operations.
- 29.Input student Name, Rollno, Branch, Age and telephone no as a record through class and display all theinformation.
- 30 Input Name, Degignation, Basic Salary of employee into the employee record and calculate

TA	=		55%	of		Basic
DA	=		65%	of		Basic
HRA	=		35%	of		Basic
PF	=		12%	of		Basic
Also	calculate	Gross	Salary	and	net	salary

- a) Use Array to input minimum 3 records (3 persons data) and display all the records sequentially.
- 31. Input your date of Birth and current date through structure and calculate your age in Year, Month and days assume that 1 year = 365 days and 1 month = 30 days.
- 32.Create a student class having data members roll, class & address, mark structure having data members roll, sub1, sub2, sub3 and a student detail structure having data members roll, class total marks, no of subject pass & overall pass. Those students who have appeared the exam, their information only stored in the mark structure array. Write a program which will collect the information & fill the data in student detail array depending on the pass criteria.
- 33.Define a class "string" with members to initialize and determine the length of the string. Overload the operators '+' and '+=' for the class "string".
- 34. Describe the various approaches by which we can detect the end of file condition
- 35.A class template is known as a parameterized class comment. Write a class template to represent a generic vector. Include member functions to perform the following tasks:
 - (a) To create the vector
 - (b) To modify the value of a given element
 - (c) To multiply by a scalar values
 - (d) To display the vector in the form (10, 20, 30 ...)
- 36. What is the function supported by file stream classes of performing I/O operations?
- 37. What are the various elements of OOP?
- 38. What are the advantages of OOP?

- 39. Explain Encapsulation concept in OOP.
- 40. What is Information Hiding in OOP?
- 41.Explain some characteristics of inheritance.
- 42. What is the difference between abstract class and interface?
- 43. What are the Limitations and Restrictions of Interface?
- 44. What is a Virtual Functions in class?
- 45. What is polymorphism in Object Oriented Programming (OOPS) Languages?
- 46. What is the difference between value parameter and reference parameter?
- 47. Write a program to Sort a list of strings into alphabetical order using anarray of pointers.
- 48. How are structures in C different from a class? What is meant bydynamic initialization of a variable? Explain how memory is allocated toclasses & objects?
- 49. How does C++ uses concept of reusability? Write a program in C++ toillustrate use of Polymorphism.
- 50. What are various types of files? What are the various modes in which afile can be opened? Explain by giving examples.
- 51. What are the various types of inheritance in C++? Give an example.
- 52. Write a program to Sort a list of strings into alphabetical order using anarray of pointers.
- 53.Explain class objects. With the help of example explain how data hidingand encapsulation characteristics are achieved in C++.
- 54. How do namespace help in preventing pollution of the global namespace?
- 55.Explain how new and delete operators manage memory allocation/deallocationdynamically?
- 56. Whatis pure virtual function? Why and when it is used? Give example.
- 57. What is friend function? How it is different from member function?
- 58. Write a program in c++ to find reverse of number?
- 59. What is polymorphism? Give difference between function overloading andoverriding with example?

- 60. What is Generic function? Give example. Explain overloading of generic function with the help of c++ program.
- 61. What are virtual functions and pure virtual functions? Explain the use of having abstract classes.
- 62. Write a CPP program to declare three classes. Declare integer array asdata member in each class perform addition of two data member arraysinto array of third class. Use friend functions.
- 63. What is meant by dynamic initialization of a variable? Explain how memory is allocated to classes & objects?
- 64. How does C++ uses concept of reusability? Write a program in C++ toillustrate use of Polymorphism.
- 65. What are various types of files? What are the various modes in which a file can be opened? Explain by giving examples.
- 66. What are the various types of inheritance in C++? Give an example of each.
- 67. What are virtual functions and pure virtual functions? Explain theuse of having abstract classes.
- 68. What are pure virtual functions? Explain the mechanism of virtual functions.
- 69.Briefly describe the class hierarchy provided by C++ for stream handling.
- 70. What is object oriented programming? Explain features of OOPs?
- 71. Describe different file opening modes in c++.
- 72. Write a Program to copy contents of one file into another file in C++?
- 73. What is inheritance? What are different types of inheritance? Explain multipleinheritances with example?
- 78. What are container classes?
- 79. What is the use of command line arguments?
- 80. What is the difference between an algorithm and a flowchart?
- 81.Draw a flowchart for a program which adds two matrices of the Order 2×2 .
- 82. What is a structure and how is it different from a union?
- 83. What is the role of classes in C++?
- 84. What is the difference between call by reference and call by parameter?

- 85. What are inline member functions?
- 86. What function can be used to open a file in C++?
- 87. What are pure virtual functions
- 88. What is data abstraction?
- 89. What is constructor?
- 90. What is enumerated data type?
- 91. What is difference in multiple and multilevel inheritance?
- 92. What is friend function?
- 93. What is input/output stream in c++?
- 94. What, is structure of C++ program?
- 95. What is class and instance?
- 96. What is difference between structure and union?
- 97. What is virtual keyword used for ?
- 98.Explain in detail different types of operator in c++.
- 99.Expalin in brief different types of bindings in c++.
- 100. What do you mean by file positioning function in c++?

QUIZ QUESTIONS (OOPs USING C++)

1. Yo	ou can u	se C++ as a procedural, as well as an object-oriented, language
A.	True	B. False
2.	A defa	ault catch block catches
	A.	all thrown objects
	В.	no thrown objects
	C.	any thrown object that has not been caught by an earlier catch block
	D.	all thrown objects that have been caught by an earlier catch block
3.	Adding	g a derived class to a base class requires fundamental changes to the base class
	A.	True B. False
4.	Forma	t flags may be combined using
	A.	the bitwise OR operator ()
	В.	the logical OR operator ()
	С.	the bitwise AND operator (&)
	D.	the logical AND operator (&&)
5.	The us	se of the break statement in a switch statement is
	A.	optional
	В.	compulsory
	C.	not allowed. It gives an error message
	D.	to check an error
	E.	None of the above
6.	To exp	bose a data member to the program, you must declare the data member in the section of the class

	A.	common	В.	exposed
	C.	public	D.	unrestricted
	E.	user		
7.	Evalua	te the following expression: 3 >6&&	7>4	
	A.	True	В.	False
8.	Which	of the following are valid characters	for a r	numeric literal constant?
	A.	a comma		
	В.	a dollar sign (\$)		
	C.	a percent sign (%)		
	D.	a space		
	E.	None of the above		
9.	A func	tion that changes the state of the cout	objec	t is called a(n)
	A.	member	В.	adjuster
	C.	manipulator	D.	operator
10.		program contains a function with the of the following function headers cou		
	A.	char function(double d, char c)		
	В.	int function(int d, char c)		
	C.	both (a) and (b)		
	D.	neither (a) nor (b)		
11.	When called	the compiler cannot differentiate betw	veen tv	wo overloaded constructors, they are
	A.	overloaded	В.	destructed
	C.	ambiguous	D.	dubious

12.	Some	Streams work with input, and some with output				
	A.	True	В.	False		
13.	If you	design a class that needs special initi	alizati	on tasks, you will want to design a(n)		
	A.	housekeeping routine				
	В.	initializer				
	C.	constructor				
	D.	compiler				
14.	Which	type of statement does not occur in o	compu	ter programs?		
	A.	sequence	В.	loop		
	C.	denial	D.	selection		
15.	The ne	ewline character is always included b	etweer	1		
	A.	pair of parentheses				
	В.	pair of curly braces				
	C.	control string				
	D.	&				
	E.	None of the above				
16.	To be	called object-oriented, a programmin	g lang	uage must allow		
	A.	functions that return only a single v	alue			
	В.	#include files				
	C.	inheritance				
	D.	All of the above				
17.	A func	etion that returns no values to the pro-	gram t	hat calls it is		
	A.	not allowed in C++				

	В.	type void		
	C.	type empty		
	D.	type barren		
18.	The ke	eyword used to define a structure is _		
	A.	stru	В.	stt
	C.	struct	D.	structure
19.		ainer classes are carefully constructed ructures that are not	1, then	these tools are available to work
	A.	valid without container classes		
	В.	programmer-defined		
	C.	type-specific		
	D.	public		
20.	Heade	r files often have the file extension		
	A.	.Н	В.	.HE
	C.	.HEA	D.	.HEAD
21.	The #i	fndef directive tests to see whether _		
	A.	a class has been defined		
	В.	a variable has been given a value		
	C.	a class has no variable definitions		
	D.	any objects of the class have been in	ıstanti	ated
22.	Which	of the following statements is false?		
	A.	A function is a block of code that pe	erform	s a specific task
	В.	Functions allow programmers to brosmall and manageable tasks	eak lar	ge and complex problems into

	C.	Functions allow programmers to use	exist	ing code to perform common tasks			
	D.	Functions can be called, or invoked, only once in a program					
	E.	Programmer-defined functions can be	e eith	er value-returning or void			
23.	The ge	neric type in a template function					
	A.	must be T					
	В.	can be T					
	C.	cannot be T for functions you create	, but r	may be for C++'s built-in functions			
	D.	cannot be T					
24.		a child class function is called, the connection the	mpileı	r looks first for a matching function			
	A.	class of the object using the function	name	2			
	В.	immediate ancestor class					
	C.	base class					
	D.	descendant class					
25.	A func	tion that is called automatically each	time a	n object is destroyed is a			
	A.	constructor	В.	destructor			
	C.	destroyer	D.	terminator			
26.	•	create an instantiation of a class temp iation with a double, then	late w	ith an int, and then create a second			
	A.	you must precede each function call	with 1	the word int or double			
	В.	once a function is used as one type, other type	it beco	omes unavailable for use with the			
	C.	there is no difference in the procedu	re to c	eall a member function			
	D.	you cannot perform this operation in	C++				

27.	The step-by-step instructions that solve a problem are called				
	A.	an algorithm			
	В.	a list			
	C.	a plan			
	D.	a sequential structure			
28.	The ty	pe to be used in an instantiation of a class template follows			
	A.	the generic class name			
	В.	the keyword template			
	C.	the keyword class			
	D.	the template definition			
28.	The ty	pe to be used in an instantiation of a class template follows			
	A.	the generic class name			
	В.	the keyword template			
	C.	the keyword class			
	D.	the template definition			
30.		you pass a variable, C++ passes only the contents of the variable to the ang function			
	A.	by reference			
	В.	by value			
	C.	globally			
	D.	locally			
31.	The be	est form of coupling is			
	A.	complete B. tight			

	C.	loose	D.	free		
32.	Paying as	g attention to the important properties while ignoring inessential details is known				
	A.	selectiveness	В.	polymorphism		
	C.	abstraction	D.	summarizing		
33.	What d	loes C++ append to the end of a string	g litera	l constant?		
	A.	a space				
	В.	a number sign (#)				
	C.	an asterisk (*)				
	D.	a null character				
34.	An arra	ny name is a				
	A.	subscript				
	В.	formal parameter				
	C.	memory address				
	D.	prototype				
35.	To ente	er a comment in a C++ program, you	begin	the comment with		
	A.	**	В.	&&		
	C.	\\	D.	@		
	E.	//				
36.	Which	of the following is(are) invalid string	const	ant(s)?		
	A.	'7.15 pm'				
	В.	"i like e"				
	C.	"7.3el2"				

	D.	"1234el2"
	E.	None of the above
37.	You de	efine a structure type globally because
	A.	you save many lines of code by not rewriting an identical structure definition in each function that uses it
	В.	you will never change its definition
	C.	it is required in C++
	D.	All of the above
38.	Overlo	paded functions are required to
	A.	have the same return type
	В.	have the same number of parameters
	C.	perform the same basic functions
	D.	None of the above
39.	Redire	ction redirects
	A.	a stream from a file to the screen
	В.	a file from a device to a stream
	C.	a device from the screen to a file
	D.	the screen from a device to a stream
40.	You m	ark the beginning of a function's block of code with the
	A.	
	В.	*
	C.	{
	D.	}

	E.	either (c) or (d) ca	n be used		
41.	When	you omit parameter	rs from a function	on cal	l, values can be provided by
	A.	formal parameters	3		
	В.	reference paramet	ers		
	C.	overloaded param	eters		
	D.	default parameters	S		
42. T	he first	element in a string	is		
<u>A.</u>	the n	ame of the string			
<u>B.</u>	the f	irst character in the	string		
<u>C.</u>	the le	ength of the string			
<u>D.</u>	the n	ame of the array ho	lding the string		
43. V	ariables	s declared outside a	block are called	d	
<u>A.</u>	glob	al		<u>B.</u>	Universal
<u>C.</u>	stella	ar		<u>D.</u>	External
44. T	he com	piler converts your	C++ instruction	s into	
<u>A.</u>	edite	ed code			
<u>B.</u>	obje	ct code			
<u>C.</u>	sour	ce code			
<u>D.</u>	trans	lated code			
45. A	fundar	nental type such as	int or double is	a	
<u>A.</u>	prog	rammer-defined typ	e		
<u>B.</u>	com	plex type			
<u>C.</u>	nons	calar type			

<u>D.</u>	scalar type
46. The	e return type you code for all constructors is
<u>A.</u>	void
<u>B.</u>	the class type
<u>C.</u>	the same type as the first data member defined in the class
<u>D.</u>	no type
47. Wh	nen an object-oriented program detects an error within a function, the function
<u>A.</u>	throws an exception
<u>B.</u>	throws a fit
<u>C.</u>	catches a message
<u>D.</u>	catches an exception
48. Usi	ng a statement at the wrong time or with an inappropriate object creates a
<u>A.</u>	logical error
<u>B.</u>	syntax error
<u>C.</u>	compiler error
<u>D.</u>	language error
49. Wh	nen you create a derived class and instantiate an object
<u>A.</u>	the parent class object must be constructed first
<u>B.</u>	the child class object must be constructed first
<u>C.</u>	the parent class object must not be constructed
<u>D.</u>	the child class object must not be constructed
50. Eva	aluate the following expression: $4 > 6 \parallel 10 < 2 * 6$

<u>A.</u>	True	<u>B.</u>	False
51. Th	e base class for most stream classes is the	e	_ class
<u>A.</u>	ios	<u>B.</u>	out
<u>C.</u>	in	<u>D.</u>	app
52. Whis less	nich of the following while clause will sto than the number 0?	op the	loop when the value in the age variable
<u>A.</u>	while age < 0		
<u>B.</u>	while (age < 0)		
<u>C.</u>	while age $\geq = 0$;		
<u>D.</u>	while (age $\geq = 0$);		
<u>E.</u>	while (age >= 0)		
53. Wł	nich of the following is a C++ object?		
<u>A.</u>	cin	<u>B.</u>	>>
<u>C.</u>	iostream	<u>D.</u>	read()
54. Th	e last statement in a function is often a(n))	_
<u>A.</u>	return	<u>B.</u>	goodbye
<u>C.</u>	finish	<u>D.</u>	endfunction
55. Wł	nen the function int someFunction(char c) throv	w() is executed,
<u>A.</u>	it can throw anything		
<u>B.</u>	it may throw an integer		
<u>C.</u>	it may throw a character		
<u>D.</u>	it may not throw anything		
56. Th	e two statements that can be used to char	ige the	e flow of control are
<u>A.</u>	if and switch		

<u>B.</u>	if and while
<u>C.</u>	switch and do-while
<u>D.</u>	break and continue
<u>E.</u>	None of the above
57. If p	o and q are assigned the values 2 and 3 respectively then the statement $p = q++$
<u>A.</u>	gives an error message
<u>B.</u>	assigns a value 4 to p
<u>C.</u>	assigns a value 3 to p
<u>D.</u>	assigns a value 5 to p
<u>E.</u>	None of the above
58. Wł	nich of the following is the insertion operator?
<u>A.</u>	>>
<u>B.</u>	<<
<u>C.</u>	
<u>D.</u>	/*
<u>E.</u>	both (a) and (b)
59. Fu	nctions that returns information about an object's state can be classified as
<u>A.</u>	inspector functions
<u>B.</u>	mutator functions
<u>C.</u>	auxiliary functions
<u>D.</u>	manager functions
60. An	auxiliary function

<u>B.</u>	changes the state of data members
<u>C.</u>	performs an action or service
<u>D.</u>	creates and destroys objects
61. To	create and execute a C++ program, you need to have access to
<u>A.</u>	a C++ compiler
<u>B.</u>	a C++ translator
<u>C.</u>	an object code editor
<u>D.</u>	a text editor
<u>E.</u>	both (a) and (d)
-	you omit any constructor argument when you instantiate an object, you must use values
<u>A.</u>	for all parameters to the constructor
<u>B.</u>	for all parameters to the right of the argument
<u>C.</u>	for all parameters to the left of the argument
<u>D.</u>	for no other parameters
63. Ma	ny programmers separate a class into two files:
<u>A.</u>	one for the declarations and one for the implementations
<u>B.</u>	one for the void functions and one for the other functions
<u>C.</u>	one for the public data and one for the private data
<u>D.</u>	one for the primary functions and one for the auxiliary functions
64. A ı	major advantage of inheritance is
<u>A.</u>	reducing the time it takes to create new objects

return information about data members

<u>**A.**</u>

<u>B.</u>	not having to think about how objects will be used				
<u>C.</u>	reducing the amount of memory required to execute a progrma				
<u>D.</u>	enabling people who have not studied programming to create useful applications				
	e feature that allows the same operations is	s to be	carried out differently depending on the		
<u>A.</u>	polymorphism	<u>B.</u>	polygamy		
<u>C.</u>	inheritane	<u>D.</u>	multitasking		
66. Pre	ecedence determines which operator				
<u>A.</u>	is evaluated first				
<u>B.</u>	is most important				
<u>C.</u>	is fastest				
<u>D.</u>	operates on the largest number				
<u>E.</u>	None of the above				
67. WI	hich of the following is a C++ class?				
<u>A.</u>	>>	<u>B.</u>	read()		
<u>C.</u>	cin	<u>D.</u>	iostream		
68. Yo	ou typically initialize a String variable to		-		
<u>A.</u>	an asterisk				
<u>B.</u>	a space enclosed in single quotes				
<u>C.</u>	the number 0				
<u>D.</u>	a zero-length string				
69. Th	e set of instructions for how to tie a bow	is an	example of the structure		
<u>A.</u>	control	<u>B.</u>	repetition		

<u>C.</u>	selection	<u>D.</u>	sequence
<u>E.</u>	switching		
70. If 1	no exception is thrown		
<u>A.</u>	a catch block will cause an error		
<u>B.</u>	the first catch block coded will execut	e	
<u>C.</u>	the last catch block coded with execut	e	
<u>D.</u>	any catch blocks coded with be bypass	sed	
71. A	program that predicts the exact sequence	e in wh	nich events will take place is said to be
<u>A.</u>	compiled	<u>B.</u>	interpreted
<u>C.</u>	procedural	<u>D.</u>	object-oriented
72. A	blueprint for creating an object in C++ i	s calle	d
<u>A.</u>	a class		
<u>B.</u>	an instance		
<u>C.</u>	a map		
<u>D.</u>	a pattern		
<u>E.</u>	a sketch		
73. Th	e most common operation used in const	ructors	s is
<u>A.</u>	addition	<u>B.</u>	overloading
<u>C.</u>	assignment	<u>D.</u>	polymorphism
74. W	hen a function performs tasks based on a	a decis	ion, it has
<u>A.</u>	functional cohesion		
B.	coincidental cohesion		

<u>C.</u>	logical cohesion		
<u>D.</u>	no cohesion		
75. To	create a template class, you begin with		
<u>A.</u>	the template definition		
<u>B.</u>	the keyword class		
<u>C.</u>	the function definitions		
<u>D.</u>	the keyword definition		
76. Wł	hich of the following is false?		
<u>A.</u>	Data stored in an array can be accessed fa	aster	than data stored in a disk file
<u>B.</u>	Data stored in an array needs to be entere the program	ed on	y once, typically at the beginning of
<u>C.</u>	Arrays allow the programmer to store inf memory	forma	tion in the computer's internal
<u>D.</u>	When using arrays, you will have fewer v	varial	ble names to remember
<u>E.</u>	None of the preceding statements are fals	se	
77. A v	variable's indicates which portions o	of the	program can use the variable
<u>A.</u>	area	<u>B.</u>	extent
<u>C.</u>	lifetime	<u>D.</u>	reach
<u>E.</u>	scope		
	an integer object is thrown with a throw sta match if the type of the catch argument is		<u>.</u>
<u>A.</u>	const int &		
<u>B.</u>	int &		
<u>C.</u>	either (a) or (b)		

	no constructors can specified for a derived class, objects of the derived class will use astructors in the base class
<u>A.</u>	True <u>B.</u> False
80. The	e get() function returns
<u>A.</u>	a character
<u>B.</u>	void
<u>C.</u>	a reference to the object that invoked it
<u>D.</u>	a copy of the object that invoked it
81. The	e most efficient data type for a variable that the number 20000 is the data type
<u>A.</u>	Character
<u>B.</u>	Double
<u>C.</u>	Float
<u>D.</u>	Long Integer
<u>E.</u>	Short Integer
82. The	e number 5.5e3 is a constant
<u>A.</u>	character literal
<u>B.</u>	named literal
<u>C.</u>	numeric literal
<u>D.</u>	string literal
83. The	e compiler determines the type used in a template function via
<u>A.</u>	the name of the function
<u>B.</u>	the first variable declared within the function

<u>D.</u>

neither (a) nor (b)

<u>C.</u>	the type of the argument passed to the	e functi	ion	
<u>D.</u>	the type of the value returned from the	ne funct	ior	1
84. Wł	Thich of the following is false?			
<u>A.</u>	A pointer variable contains the addre	ss of a	vai	riable in memory
<u>B.</u>	You should both declare and initializ	e a poir	nte	r before you use it
<u>C.</u>	Pointers are typically initialized to th	e empty	y st	ring ("")
<u>D.</u>	A pointer's datatype must match the o	datatype	e o	f the variable to which it points
<u>E.</u>	A pointer variable is typically referre	d to sin	npl	y as a pointer
85. In	C++, the address operator is the follow	ing syn	nb	ol
<u>A.</u>	>>	<u>B.</u>	,	&
<u>C.</u>	*	<u>D.</u>		!
86. An	ny #include files may contain			
<u>A.</u>	constants			
<u>B.</u>	variables			
<u>C.</u>	functions			
<u>D.</u>	All of the above			
87. Wł	Thich of the following are valid characte	ers for a	ı nı	meric literal constant?
<u>A.</u>	a decimal point			
<u>B.</u>	the letter e			
<u>C.</u>	a minus sign			
<u>D.</u>	a plus sign			
<u>E.</u>	All of the above			
88. WI	Then a break statement is used in a loop,	, the co	ntr	ol skips the rest of the statements in

the loc	op after it and jumps		
<u>A.</u>	to the last lines in the program		
<u>B.</u>	to the next statement written after the b	ody o	f the loop
<u>C.</u>	to the first statement in the body of the	loop	
<u>D.</u>	All. of the above		
<u>E.</u>	None of the above		
89. Th	e function that takes arguments to set the	e bits o	of count is
<u>A.</u>	setf()	<u>B.</u>	bitsef()
<u>C.</u>	ios()	<u>D.</u>	flag()
90. W	hen two types are used in a function tem	plate a	and one is labeled T, the other
<u>A.</u>	must also be named T		
<u>B.</u>	must be named U		
<u>C.</u>	can be any legal C++ identfier		
<u>D.</u>	it is illegal to have two types		
91. Th	e actual arguments cannot be		
<u>A.</u>	a constant or a variable		
<u>B.</u>	of a different type from the correspond	ling fo	rmal arguments
<u>C.</u>	other functions		
<u>D.</u>	expressions		
<u>E.</u>	None of the above		
92. A	predefined function that may be used to	handle	e memory allocation errors is
<u>A.</u>	handle_error	<u>B.</u>	set_new_handler
<u>C.</u>	new_fix	<u>D.</u>	memory_error

93. A	93. A function in a derived class that has the same name as a function in the parent class			
<u>A.</u>	will cause an error message to display			
<u>B.</u>	will override the base class function			
<u>C.</u>	will be overridden by the base class fur	nction		
<u>D.</u>	will execute immediately after the base	e class	function executes	
94. Th	e comma operator (,) is primarily used in	n conji	unction with	
<u>A.</u>	'for' statement			
<u>B.</u>	'if-else' statement			
<u>C.</u>	'do-while' statement			
<u>D.</u>	All of the above			
<u>E.</u>	None of the above			
	95. To execute a C++ program, you first need to translate the source code into object code. This process is called			
<u>A.</u>	coding	<u>B.</u>	compiling	
<u>C.</u>	sourcing	<u>D.</u>	translating	
96. Th	e rules of a programming language are c	alled i	its	
<u>A.</u>	code	<u>B.</u>	guidelines	
<u>C.</u>	procedures	<u>D.</u>	regulations	
<u>E.</u>	syntax			
97. Ar	array element is accessed using			
<u>A.</u>	a first-in-first-out approach			
<u>B.</u>	the dot operator			
<u>C.</u>	a member name			

<u>D.</u>	an index number		
98. The	e program can access the private membe	rs of a	class
<u>A.</u>	directly		
<u>B.</u>	only through other private members of	the cla	ass
<u>C.</u>	only through other public members of t	the cla	SS
<u>D.</u>	None of the above - the program cannot any way	t acce	ss the private members of a class in
99. The	e pow and sqrt functions return a(n)	typ	e number
<u>A.</u>	double	<u>B.</u>	float
<u>C.</u>	integer	<u>D.</u>	long
<u>E.</u>	short		
100. The program	ne generic name used for unexpected err m is	ors tha	at occur during the execution of a
<u>A.</u>	infractions	<u>B.</u>	exceptions
<u>C.</u>	deviations	<u>D.</u>	anomalies
101. You	ou add the desired type to a specific tem	plate c	class instantiation by placing the type's
<u>A.</u>	between angle brackets		
<u>B.</u>	in parentheses		
<u>C.</u>	on a line by itself		
<u>D.</u>	immediately prior to the class name		
102. Pr	rogrammer-defined functions can be		
<u>A.</u>	value-returning functions only		
<u>B.</u>	void functions only		

an index number

<u>C.</u>	either value-returning or void functions	S				
	A class D can be derived from a class C, ved from a class A	which i	s derived from a class B, which is			
<u>A.</u>	True	<u>B.</u>	False			
104.	. To use the strcpy function, you must include the header file in your program					
<u>A.</u>	assign.h	<u>B.</u>	copy.h			
<u>C.</u>	string.h	<u>D.</u>	strcopy.h			
105.	The number of the relational operators in t	the C l	anguage is			
<u>A.</u>	four					
<u>B.</u>	six					
<u>C.</u>	three					
<u>D.</u>	one					
<u>E.</u>	None of the above					
106.	Which of the following tells C++ to displa	ay num	bers with two decimal places?			
<u>A.</u>	setdecimal(2)	<u>B.</u>	setiosflags(2)			
<u>C.</u>	setiosflags(2.00)	<u>D.</u>	setprecision(2)			
107.	The main difference in operation between	an 'if s	statement and a 'while' statement is			
<u>A.</u>	the 'while' loop body is executed					
<u>B.</u>	the body of the 'while' statement may b statements only once	e exec	uted many times, the body of the 'if			
<u>C.</u>	the conditional expression following th	e keyb	poard is evaluated differently			
<u>D.</u>	All of the above					
<u>E.</u>	None of the above					
	8. If a class object is thrown with a throw statement, then a subsequent catch block has a able match if the type of the catch argument is					

a parent class of the thrown class		
a child class of the thrown class		
either (a) or (b)		
neither (a) nor (b)		
he weakest form of cohesion is		
coincidental	<u>B.</u>	functional
logical	<u>D.</u>	communicational
he 'continue' statement is used to		
permit two different expressions to app would ordinarily be used	ear in	situations where only one expression
terminate loops or to exit from a switch	l	
alter the normal sequence of program enother part of the program	xecuti	on by transferring control to some
All of the above		
None of the above		
he 'break' statement is used to exist from		
a do loop		
a for loop		
a switch statement		
All of the above		
None of the above		
function whose purpose is to send messa	ages to	o other functions is known as a
dispatcher	<u>B.</u>	courier
	a child class of the thrown class either (a) or (b) neither (a) nor (b) ne weakest form of cohesion is coincidental logical ne 'continue' statement is used to permit two different expressions to app would ordinarily be used terminate loops or to exit from a switch alter the normal sequence of program e other part of the program All of the above None of the above ne 'break' statement is used to exist from a do loop a for loop a switch statement All of the above None of the above None of the above None of the above	a child class of the thrown class either (a) or (b) neither (a) nor (b) ne weakest form of cohesion is coincidental B. logical D. ne 'continue' statement is used to permit two different expressions to appear in would ordinarily be used terminate loops or to exit from a switch alter the normal sequence of program executi other part of the program All of the above None of the above ne 'break' statement is used to exist from a do loop a for loop a switch statement All of the above None of the above None of the above None of the above In the statement of the above of the above In the statement of the above o

<u>C.</u>	messenger	<u>D.</u>		sender
113. With commercial classes, the function source code is usually				
<u>A.</u>	printed on high-quality paper			
<u>B.</u>	poorly written			
<u>C.</u>	provided on a disk			
<u>D.</u>	provided in object form			
114. The type of value that a function sends back to the function that calls it is known as its				
<u>A.</u>	type type			
<u>B.</u>	return value			
<u>C.</u>	reference data			
<u>D.</u>	sentinel			
115. Assume that a program includes the short *agePtr = NULL; statement. The name of the pointer is				
<u>A.</u>	*agePtr	<u>B.</u>		agePtr
116. Which of the following are never inherited?				
<u>A.</u>	public data members			
<u>B.</u>	constructor functions			
<u>C.</u>	void functions			
<u>D.</u>	overloaded + operators			