BCA 206 Object Oriented Concepts through C++

1	Who invented OOP?			
	A Andrea Ferro	B Adele Goldberg	C Alan Kay	D Dennis Ritchi
2	Which is not a feature o	f OOP in general definiti	ons?	
	A Efficient Code	B Code reusability	C Modularity	D Duplicate
3	When OOP concept did	first came into picture?		
	A 1970	B 1972	C 1980	D none
4	Which feature of OOP i	ndicates code reusability	?	
	A Inheritance	B abstraction	C encapsulation	D none
5	Which header file is req	uired in C++ to use OOF	??	
	A stdio.h	B iostream.h	C string.h	D none
6	Which among the follow	wing doesn't come under	OOP concept?	
	A Platform independe	nt B dynamic binding	C message passing	D all
7	The feature by which o	ne object can interact wit	th another object is	
	A dynamic binding	B message passing	C both	D none
8	How many types of acc	ess specifiers are provide	ed in OOP (C++)?	
	A 3	B 2	C 1	D 4
9	In multilevel inheritance	e, which is the most sign	ificant feature of OOP u	sed?
	A efficiency	B reusability	C readiability	D all
10	Which among the follow	wing can show polymorp	hism?	
	A Overloading &&	B Overloading <<	C Overloading &	D none
11	Hiding the implementa	tion and showing only th	e features is called	
	A abstraction	B inheritance	C polymorphism	D all
12	In which access specifie	er should a constructor be	defined	
	A public	B private	C protected	D all
13	Which access specifier	is usually used for data m	nembers of a class?	
	A private	B public	C protected	D none
14	How to access data men	nbers of a class?		
	A . or -> as need	B .	C ->	D;
15	By default the data men	nbers of a class is		
	A public	B private	C both	D none
16	Which feature of OOP i	reduces the use of nested	classes?	
	A inheritance	B abstraction	C class	D all
17	Which of the following	is not a property of an ob	oject?	
	A property	B identity	C name	D attribute
18	Where is the memory al	located for the objects?		
	A RAM	B ROM	C Cache	D HDD
19	Which of the following	is not an OOPS concept	?	
	A Inheritance	B abstraction	C Exception	D all
20	Which among the follow	wing feature is not in the	general definition of OC	PS?

	A Modularity	B Efficient Code	C Code reusability	D redundency
21	Which feature of OOPS	derives the class from ar	nother class?	
	A inheritance	B data hiding	C polymorphism	D none
22	A single program of OO	PS contains cla	asses?	
	A 1	B 2	C any number	D 3
23	Which function best des	cribe the concept of poly	morphism in programm	ing languages?
	A virtual function	B inline	C user defined	D friend function
24	What is the extra feature	in classes which was no	ot in the structures?	
	A member function	B public access	C data member	D all
25	How many types of poly	morphism in the C++ pr	ogramming language?	
	A 3	B 2	C 4	D 5
26	Which of the following	feature is also known as	run-time binding or late	binding?
	A Data binding	B loading	Cdynamic binding	D all
27	Which of the following	OOP concept binds the c	ode and data together ar	nd keeps them
	secure from the outside	world?		
	A Encapsulation	B abstraction	C inheritance	D all
28	If a function can perform	n more than 1 type of tas	ks, where the function n	ame remains same,
	which feature of OOP is	used here?		
	A polymorphism	B data hiding	C inheritance	D none
29	Inheritance allowed			
	A readability	B reusability	C improvement	D all
30	Object is a			
	A instance of class	B data type	C class	D all
31	Class is a			
	A user defined data type	De B object	C instance	D none
32	A class can haveot	pjects		
	A 1	B 2	C 3	D any number
33	If different properties an	nd functions of a real wo	rld entity is grouped or e	embedded into a
	single element, what is i	t called in OOP language	?	
	A inheritance	B Encapsulation	C binding	D all
34	Which feature may be vi	iolated if we don't use cl	asses in a program?	
	A object	B inheritance	C abstraction	D all
35	underline	s the feature of Polymor	phism in a class.	
	A friend	B virtual function	C inline	D
36	Exception handling is a	feature of OOP.		
	A True	B False		
37	Which definition best de	escribes an object?		
	A instance of class	B instance of itselg	C child of a class	D all
38	The object can't be			
	A Passed by reference	BPassed by value	C Passed by copy	D Passed by function
39	What is size of the object	et of following class (64 l	oit system)?	
	class student { int rollno	o; char name[20]; };		
	A 24	B 20	C 22	D 28

40	Functions can't return ob	jects.		
	A True	B False		
41	Which among the follow	ing is correct?		
	A class s{ };	B Class s{ }	C class a()	D all
42	Which member of the su	perclass is never access	ible to the subclass?	
	A private member	B public	C protected	D all
43	What is the size of a clas	s?		
	A 1 byte	B 2	C 3	D No size of a class
44	Which class cannot creat	e its instance?		
	A Parent	B nested	C abstract	D none
45	Encapsulation adds the fu	unction in a user-define	d structure.	
	A True	B false		
46	Which of the following v	rariable violates the def	inition of encapsulation	n?
	A Local	B global	C public	D array
47	How can the concept of e	encapsulation be achiev	ed in the program?	
	A access specifier	B local	C abstraction	D all
48	Which of the following s	tatement of a program i	is not right?	
	A class t{ }; t s[5];	B class t{ }s;	C class t{ }s[];	D none
49	The combination of abstr	raction of the data and c	code is viewed in	·
	A inheritance	B object	Cclass	D encapsulation
50	C is which type of langua	age		
	A High level	B procedural	C OOP	D Pure OOP
51	An object can have			
	A characteristics	B behavior	C both	D none
52	In OOPS the program is	divided into		
	A class	B Object	C data	D All
53	POP follows			
	A Top down approach	B Bottom up	C both	D None
54	OOPs follows			
	A Top down approach	B Bottom up	C both	D None
55	collection of objects of si	* *	_	
	A class	B function	C pointer	D all
56	is a general struct	ure or blue print or tem	plate for objects.	
	A Class	B function	C object	D none
57	The binding of data and f	functions into a single u	ınit is known as	
	A Abstraction	B Encapsulation	C pointer	D polymorphism
58	creation of new classes fr	rom the existing classes	s is known as	
	A Inheritance	B polymorphism	C object	D all
59	Insulation of data from d	irect access by the prog	ram is called	
	A Data Hiding	B Message passing	C both	D none
60	Hiding individual compo			
	A polymorphism	B encapsulation	C scaling	D None

Which of the following concepts means one name, many forms?

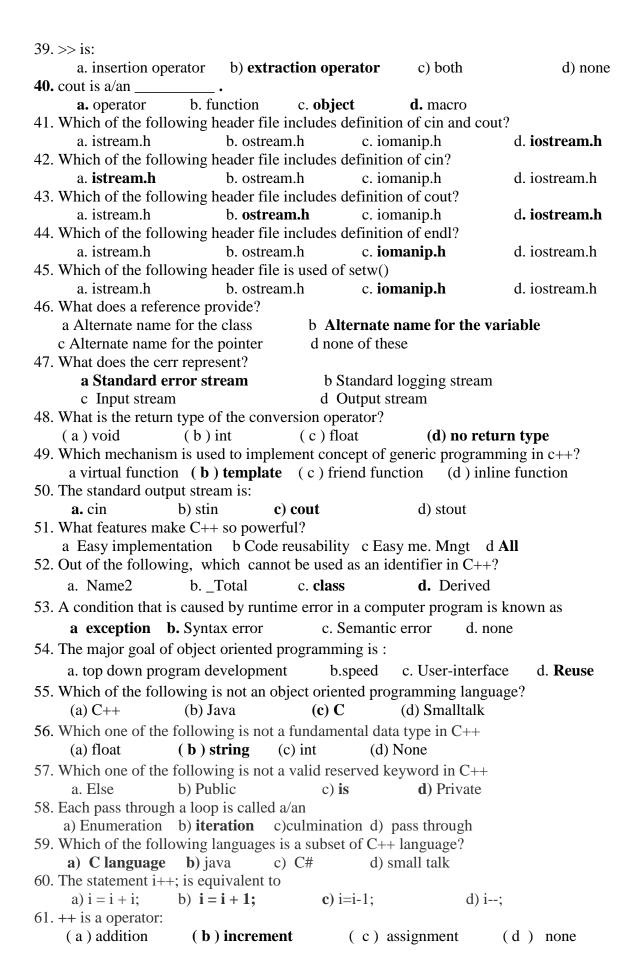
A **polymorphism** B encapsulation

C abstraction

D None

	UNIT 2			
1	Who was the developer			
	*	B Dennis Ritchie	C alan kay	D None
2	In which year C++ intro	oduced		
	A 1987	В 1980	C 1972	D none
3	The idea of C++ comes	from		
	A C Increment op	B Addition op	C assignment op	D none
4	C++ is a of C lang	guage		
	A Extension	B Superset	C both	D none
5	C++ follows the approa	ach of		
	A Bottom up	B top down	C both	D none
5	C++ statement terminat	es with		
	A semi colon	B colon	C comma	D none
6	In C++ single line com	ments can be write using		
	А∥	B #	C //	D all
7	In C++ multi line comm	nents can be write using		
	A /* */	B ??	C //	D#
8	Which header file is use	ed for read and write data	in C++	
	A stdio.h	B iostream.h	C process.h	D all
9	# symbol shows:			
	A Preprocessor dir.	B header file	C constant	D all
10	Which header file is use	ed for formatting of stream	m of data	
	A iomanip.h	B iostream	C stdio.h	D all
11	An array element is acc	essed using:		
		cope resolution operator	c). An index numb	oer d) None
12.	A structure is a group of	f:		
		ita types b Same data typ		•
13.	•	ve a higher precedence the	•	rs
1.4	a. True b) Fa l	lse c) equal	precedence	
	The symbol << is:	b) Insertion operat	or c. both	d) none
	a. Extraction operator the function abs() is dec	, <u> </u>	01 C. 00011	d) none
15.	a. <math.h></math.h>		c) <stdio.h></stdio.h>	d) <iostream.h></iostream.h>
16.		is a logical OR operator:	,	.,
	a. && b)	-	l)&=	
17.	The for loop is best if we			
	a. Fixed no. of repet			
	c) Value of calculation	on d) No. of repetit	tion is not fixed	

18. The parameters which are written			ire:	
a. Actual parameters b) For	mal paramete	ers		
c)Static parameters	d) Global para	ameters		
19. When we pass array to a function	that is passed	as:		
	b) Pass by re			
c) Pass by constant	d) Array cann	ot be passed to	a function	
20. Out of the following which one is	s not the keyw	ord in C++?		
a. Struct b) Unio	on	c) if	d) Record	
21. the effect of endl is same as:				
a. "\t" b) "\n"	c) "\a"	d) "\b	,	
22. The output of the following macr	o is if we call	that by $F(n+2)$	where n=6	
# define F(n) n*n				
a. 20 b) 64	c) 36	d)16		
23. The concept of using the same fu	nction name to	perform diffe	rent tasks is cal	lled:
a. Function overloading				
c. Data abstraction	d) Encapsulat	ion		
24. The break statement causes an ex				
a. Only from the innermost lo	oop b) Onl	ly from the inn	er most switch	
c.From all loops and switches	d) Fro	m the innerm	ost loop or swi	tch
25. The expression ($x>y && a) is$				
true		1	•	1
a. True b) False				
26. The null character is represented	by:			
a. n b) 0	c) \o	d) \r		
27. Which of the following is an inv	, ·	<i>,</i> , ,		
a. 0.7 b) 27,512		d) 9.3e12		
28. The logical NOT operator is a:	,	,		
a. Unary operator b) Bina	ary operator	c) Tei	marv	d)Octal
29. the standard input stream is:	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,		.,
a. cin b) stin	c) cout	d) stout		
30. A pointer to void can hold pointe	,	.,		
a. Char b) Int	c) Floa	at	d) Any	
31. An array name is a:			<i>-</i> , <i>-</i> , <i>-</i> , <i>-</i> ,	
•	rameter c) Me	mory address	d)Pro	totype
32. Which of the following will prod		•	2/	
a. Floor(X0 b) Abs		c) Log(x)	d) Ce	il(x)
33. Which of the following control e	• •	/ 0 \ /		
a. Integer b) Boo	-	c) Either a a		ither a and b
34. Which of the following cannot be			222 8	
a. Reference variable b) Arr	-		ader files	
35. Which of the following is not a k	•	() II	adel IIIes	
a. Switch b) Integer	c) Default	d) Object		
36. The parameters which are written	· ·	,	are.	
a. Actual parameters b) For		_	nc.	
c)Static parameters	d) Global par			
37. Which operator has the highest p		unicuis		
a. ++ b) %	c) +	d)/		
38. Which is a ternary operator?	<i>C)</i> 1	u) /		
a. ?:: b) *	c) sizeof	d) ^		
··· · · · · · · · · · · · · · · · · ·	-, 512001	<i>u</i> ,		



62. W	hich is a keyword			
((a) Float (b)	float (c) Int	(d) Integer	
63. Fi	rst letter of identifier	should be letter or _		
(a) True (b)	false		
64. Fo	or loop is a			
	(a) conditional		c) sequence (d) br	anching
65. O	verloading and overri	ding means:		
	a. Same	b) Different	c) Can be both	d) None
66. I	Example of memory r	nanagement operator is		
	(a) new	(b) delete (c) both	(d) none
67.	While(1) is a infinite	loop		
	A No	B Yes		
68.	Which loop must be	e terminated by semi col-	on.	
	A Do while()	B for	C if	D all
69.	For(; ;) ,what is the	±		
	A error	B infinite loop	C not run	D none
70.	, , , , , , , , , , , , , , , , , , , ,			
	A infinite loop	B not run	C logical error	D all
71.	In an array x[10], the	-		
		B name	C variable	D none
72.		; the base address is 100		
	A 1004	В 1002	C 1003	D 1001
73.	array elements of 2			
	_	mory location B ra	•	D none
74.	* *	ores multiple values of th	· -	
	A pointer	B Array	C structure	D union
75.	Int A[]; is it correc			
	A No	B Yes		
76.	Int a[]= $\{2,6,5\}$, it i			
77	A Yes	B No	1 '11 ' .1	
77.		ray is exceed, the compi	ler will give the error.	
70	A Yes	B No		
78.	• •	argument to a function l	-	_
- 0	A value	B reference	C Both	D none
79.	· ·	used for function not retu		
	A void	B int	C auto	D none
80.	A function is called	itself is known as:		
	A main()	B Recursion	C nested	D none
81.	Function not return	ing any value is called:		
	A void	B int	C return	D none
82.	How many values of	can be return by return st	atement:	
	A 2	В 1	C any	D none
83.		an call another user defir	▼	
•	A yes	B No		
84.	•	function gives the inform	ation in advance to com	piler?
J	A Definition	B calling	C Prototype	D none
85.		function which are invok	V 2	
$o_{\mathcal{I}}$.	The argument of a	idiletion which are mivor	ca in rancuon acimilioi	i is called.

C local

B actual

D none

A formal

86.	Which is the correct syntax of fundation A void a() B void a()		e C void a(s);	D none
87.	Which is the correct syntax of fund A void a(int x){} B void a(ction definition		D none
88.	Which is the correct syntax of fundamental which is the correct synt		void a(s), { }	D none
	A void a(); B a(int);	C	a(s);	D none
89.	Where the data type is not compul	sory in passing	gargument	
	A prototype B definitio		calling	D none
UNIT	3			
1.	Fast access of array elements can lead to the A stack B pointer	•	ng: C address	D all
2.	In a class you can have more than			
	a. True b) False		, , , , , , , , , , , , , , , , , , ,	
3.	Constructor in a class:			
	a. Has same name as class	b) Is a pub	olic member fund	ction
	c. Can be overloaded	d) All of th		
4.	Constructor has same name as:	,		
		rogram	c) Class	d)None of these
5.	The return type of a destructor is:	C	,	,
	a) The class b) Void	c)Ir	nteger	d) None
6.	A constructor can be defined:	ŕ		,
	a. Only inside class definition	b) Only ou	tside class defin	ition
	c. Both outside and inside	d) In main()	
7.	Which of the following is not a type	pe of construct	or?	
	i. Copy constructor			
	ii. Friend constructor			
	iii. Default constructor			
	iv. Parameterized constructor			
8.	Which of the following ways are l	egal to access	a class data men	mber using this pointer?
	i. this->x			
	ii. this.x			
	iii. *this.x			
	iv. *this-x			
9.	Which of the following statements	s regarding inli	ine functions is o	correct?
	i. It speeds up execution.			
	ii. It slows down execution.			
	iii. It increases the code size.			
4.0	iv. Both A and C.			
10.	What does a reference provide?			
	(a) Alternate name for the class	,	,	me for the variable
	(c) Alternate name for the pointed		(d) none of thes	se
11.	. Which of the following statements			
	(a) Constructors do not return any	-		
	(b) A class should have at least (or	
	(c) Destructor never take any arg			
10	(d) A constructor that accepts no	_		
12.	. Which of the following is a correc	a syntax of a d	estructor for the	CIASS X Y Z !

(a) XYZ(); (b) #XYZ(); (c) %XYZ(); (d) ~XYZ(); 13. A constructor that accepts
(a) one (b) two (c) three (d) zero 14. Which of the following is not a type of constructor? (a) Copy constructor (b) default constructor (c) friend constructor (d) parameterized constructor 15. Which of the following is a valid destructor of the class name "Country" a) int ~Country() b) void Country() c) int ~Country(Country obj) d) ~Country() 16. How do we define a constructor? a. x() {} b. x() {} ~ c. x() ~{} d. ~x() {} 17. Array of object can be write as (a) obj[n] (b) obj (c) obj(n) (d) none 18. Can we create multiple object of a single class (a) True (b) false 19. Which of the following is not correct for virtual function in C++? A. Virtual function can be static. B. Virtual function should be accessed using pointers C. Virtual function is defined in base class D. Must be declared in public section of class 20. How can we make a class abstract? A. By declaring it abstract using the static keyword B. By declaring it abstract using the virtual keyword. C. By making at least one member function as pure virtual function D. By making all member functions constant 21. Which of these following members are not accessed by using direct member access operator? A. Public B. Private C. Protected D. Both B & C 22. Which other keywords are also used to declare the class other than class? A. Struct B. Union C. Object D. Both struct & union 23. Which of the following is true? A. All objects of a class do not share non-static members. Every object has its own copy C. Objects of a class do not share codes of non-static methods, they have their own copy D. None of these
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D. None of these
A. An object goes out of scope.
B. A class is declared
C. An object is created
D. An object is used
25. How many ways of reusing are there in class hierarchy?
A. 1 B. 3 C. 4 D. 2 code sharing and interface sharing.
26. Where does the object is created?
A. Class B. Constructor C. Destructors D. Attributes
27. Which of the following is a valid class declaration?
A. Class A { int x; };
B. Class B { }
C. Public class A { }
D. Object A { int x; };
28. Which of the following keywords is used to control access to a class member?

	A. Default
	B. Break
	C. Protected
	D. Asm
29.	Which of the following statements is incorrect?
	A. Destructor of base class should always be static
	B. Destructor of base class should always be virtual.
	C. Destructor of base class should not be virtual.
	D. Destructor of base class should always be private.
30	What is the size of empty class?
50.	A. 0 B. 2 C. 4 D. 1
31	How to access the object in the class?
51.	A. Ternary operator
	· ·
	B. Scope resolution operator
	C. Direct member access operator D. None of the above
22	
32.	When struct is used instead of the keyword class means, what will happen in the program?
	A. Access is public by default
	B. Access is private by default
	C. Access is protected by default
22	D. None of the mentioned
33.	Which of the following is not a member of class?
	A. Static Function.
	B. Friend Function
	C. Const Function
	D. Virtual Function
34.	Which of the followings is/are automatically added to every class, if we do not write our own.
	A. Copy Constructor.
	B. Assignment Operator
	C. A constructor without any parameter
	D. All of the above
35.	Which of the following gets called when an object is being created?
	A. Constuctor
	B. Virtual Function
	C. Destructors
	D. Main
36.	Destructor has a same name as the constructor and it is preceded by?
	A.! B.? C.~ D.\$
37.	Generic pointers can be declared with
	A. auto B. void C. asm D. None of the above
38.	What is size of generic pointer in c?
	A. 0 B. 1 C. 2 D. Null
39.	A void pointer cannot point to which of these?
	A. Methods in c++ B. Class member in c++
	C. Both A & B D. None of the above
40.	Referencing a value through a pointer is called
	A. Direct calling B. Indirection
	C. Pointer referencing D. All of the above

41. Which contructor function is designed to copy object of same class	s type?
A. Copy constructor B. Create constructor	
C. Object constructor D. Dynamic constructor	
42. Like constructors, can there be more than one destructors in a cla	ss?
A. Yes B. No C May Be D. Can't Say	
43. Which of the following is true about constructors.	
A. They cannot be virtual B. They are automatically called by	new operator.
C. both D. none	
44. Values of copy constructor are passed:	
	d) By assignment
45. Inline functions are invoked at the time of	
a) Run time b)Compile time c)Depends on how it is invoked	d)Both b and c above
46. Which of the following statement would call a copy constructor?	
(Consider ABC is a class and A1 and A2 are objects of class ABC)	
(a)ABC A1 (b) ABC A2=A1 (c) ABC A1(A2) (d) both	
47. What happens to a function defined inside a class without any cor	npiex operations (like
looping, a large number of lines, etc)?	
a) It becomes a virtual function of the class	
b) It becomes a default calling function of the class	
c) It becomes an inline function of the class	
d) The program gives an error	
40 Wiles 4 is a second in the second is a 9	
48. What is an inline function?	
a) A function that is expanded at each call during execution	
a) A function that is expanded at each call during executionb) A function that is called during compile time	
a) A function that is expanded at each call during executionb) A function that is called during compile timec) A function that is not checked for syntax errors	
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53. Name the function whose definition can be substituted at a place where its	function call is
made	
a) friends function b) inline function c) volatile function d) none	;
54. Where should default parameters appear in a function prototype?	
a) To the rightmost side of the parameter list	
b) To the leftmost side of the parameter list	
c) Anywhere inside the parameter list	
d) Middle of the parameter list	
55. A friend class can access members of other	er class in which it
is declared as friend.	
A. Private B. Protected C. Public D. Both A and B	
56. A friend function can be	
A. A method of another class B. A global function	
C. Both A and B D. None of the above	
57. If class A is a friend of B, then B doesn't become a friend of A automatical	
A. TRUE B. FALSE C. Can be true and false D. Can not say	
58. Which of the following is false?	
A. Friendship is not inherited	
B. The concept of friends is there in Java.	
C. Both A and B	
D. None of the above	
59. Which keyword is used to represent a friend function?	
A. Friend B. friend C. friend_func D. Friend_func	
60. Which of the following is correct about friend functions?	1 11 .
A. Friend functions use the dot operator to access members of a class using	; class objects
B. Friend functions can be private or public	
C. Friend cannot access the members of the class directly	
D. All of the above	
61. Where does keyword 'friend' should be placed? A. function declaration B. function definition	
62. What is the syntax of friend function?	d) None
a) friend class1 Class2; b) friend class; c) friend class	d) None
63. What is an array of objects?	
a) An array of instances of class represented by single nameb) An array of instances of class represented by more than one name	
c) An array of instances which have more than 2 instances	
d) An array of instances which have different types	
64. Which among the following is a mandatory condition for array of objects?	
a) All the objects should be of different class	
b) All the objects should be of same program classes	
c) All the objects should be of same class	
d) All the objects should have different data	
65. What is the type of elements of array of objects?	
V-1	J\ NI11
	d) Null
66. When are the array of objects without any initialization useful?	
a) When object data is not required just after the declaration	
b) When initialization of object data is to be made by the compiler	

	c) When object data doesn't matter in the program
	d) When the object should contain garbage data
67.	How the objects of array can be denoted?
	a) Indices b) Name c) Random numbers d) Alphabets
68.	The objects in an object array
	a) Can be created without use of constructor
	b) Can be created without calling default constructor
	c) Can't be created with use of constructor
~ 0	d) Can't be created without calling default constructor
69.	The Object array is created in
	a) Heap memory
	b) Stack memory
	c) HDD
70	d) ROM
70.	Can we have two dimensional object array?
	a) Yes, always b) Yes, anly if mimitive type offers
	b) Yes, only if primitive type array
	c) No, since two indices are impossible
71	d) No, never From which index does the array of objects start?
/ 1.	a) 0 b) 1 c) 2 d) 3
72	Two dimensional array can't be initialized with the declaration.
1 4.	a) True
	b) False
73 .	Is an array of characters always a string?
10.	a) Yes, always
	b) Yes, if each character is terminated by null
	c) No, since each character is terminated by null
	d) No, never
74.	In how many ways can an object be passed to a function?
	a) 1
	b) 2
	c) 3
	d) 4
<i>75.</i>	If an object is passed by value
	a) A new copy of object is created implicitly
	b) The object itself is used
	c) Address of the object is passed
	d) A new object is created with new random values
76.	Pass by address passes the address of object and pass by reference passes the
	address of the object
	a) Explicitly, explicitly
	b) Implicitly, implicitly
	c) Explicitly, Implicitly
77	d) Implicitly, explicitly If an object is passed by reference, the changes made in the function
11.	If an object is passed by reference, the changes made in the function
	a) Are reflected to the main object of caller function too b) Are reflected only in local scope of the called function
	b) Are reflected only in local scope of the called function

	c) Are reflected to the copy of the object that is made during pass
70	d) Are reflected to caller function object and called function object also
/8.	Constructor function is not called when an object is passed to a function, will its destructor be
	called when its copy is destroyed?
	a) Yes, depending on code
	b) Yes, must be called
	c) No, since no constructor was called
=0	d) No, since same object gets used
79.	When an object is returned by a function, a is automatically created to
	hold the return value.
	a) Temporary object
	b) Virtual object
	c) New object
00	d) Data member
80.	How many objects can be returned at once?
	a) Only 1
	b) Only 2
	c) Only 16
	d) As many as required
81.	How many objects can be passed to a function simultaneously?
	a) Only 1
	b) Only an array
	c) Only 1 or an array
	d) As many as required
82.	Size of a class is
	a) Sum of the size of all the variables declared inside the class
	b) Sum of the size of all the variables along with inherited variables in the class
	c) Size of the largest size of variable
	d) Classes doesn't have any size
83.	Which class can have member functions without their implementation?
	a) Default class
	b) String class
	c) Template class
	d) Abstract class
84.	Which syntax for class definition is wrong?
	a) class student{ };
	b) student class{ };
	c) class student{ public: student(int a){ } };
	<pre>d) class student(student(int a) { } };</pre>
85.	Instance of which type of class can't be created?
	a) Anonymous class
	b) Nested class
	c) Parent class
	d) Abstract class

Unit 4

1. Which is not a visibility specifier?

	a. Public b) Default	c) Private	d) Protec	cted		
2.	A class hierarchy desc	cribes:				
	a. "is a" relationship	b) "has a " re	lationship	c) organiza	tion chart	d)family tree
3.	Which is not a type of	inheritance?		_		•
	a. Hybrid		С) Multilevel	d)	Multiclass
4.	Subclass is same as:					
	a. Derived class b) Su	per class	c) Base of	class	d) None o	f these
5.	Which operator can n	_			,	
	_	c) ->		l) ::		
6.	A pointer to a base cla	ass can point t	o objects o	of a derived	class.	
	a. True b)Fal	_	ŭ			
7.	Which of the followin	g may be over	loaded?			
		c) ?:		d)%		
8.	In function overloading	ng selection of	the correc	ct choice is le	eft to the:	
		ogrammer				er functions
9.	Which of the followin	_		•		
	a. Constructor (b) Do	_				
10	. Constructor can be a			,		
	(a) True	(b) False				
11	` '	` '	private n	nethods of th	e base clas	ss arein the derived
	class	• /	•			
	(a) Inaccessible	(b) accessibl	e (c) protected	(d) Public
12	An abstract class is a	` '	`	/ 1	`	,
	a. Defines a pure virtua	l function	1	b) Cannot de	eclare an o	biect
	C. Can declare pointers			reate an obje		U
13	. Pointers of different t		,			out a cast operator
	a. True b) Fa		O			•
14	. How many types of po	olymorphisms	are suppo	orted by C++	-?	
		c) 3		1) 0		
15	. Which of the followin	g is correct ab	out functi	on overload	ing?	
	A. The types of argum				O	
	B. The order of argum	ment is differer	ıt.			
	C. The number of arg					
	D. ALL of these					
16	. Which inheritance typ	oe is used in th	e class giv	ven below?		
	class A: public X, p	ublic Y	_			
	A. Multilevel in	heritance	В	. Multiple i	nheritance	;
	C. Hybrid inheri	tance	Ι	D. Hierarchica	al Inheritan	ice
17 .	. Which of the followin	g is a mechani	sm of stat	ic polymorp	hism?	
	A. Operator ove	rloading	B. F	Function over	loading	
	C. Templates		D. A	All of the abo	ove	
18	. Which of the followin	g keyword is u	ised to ove	erload an op	erator?	
	A. overload			_		
	B. operator					
	C. friend					
	D. override					
19	Which of the followin	g advantages v	we lose by	using multi	ple inherit	ance?
	(a) Dynamic bind		-	morphism		
	(c) Both a & b	-		e of these		

20. Giving an spe			_	s known as:	•	
a) function	· ·		0	c) object	d) none	
21. Operator ove	rloading	is an examp	le of			
a) compile po	lymorphi	sm	b) run	time	c) dynamic	d) star
22. Right syntax	of inherit	ance is:				
a) class subcla	ass:VM su	uperclass	b) clas	ss super: VN	M sub	
c) class super:	: VM sub		d) all			
23. One base clas	s and one	e child class	shows:			
a) multiple	b) sing	gle c) m	nultilevel	d) none		
24. One base clas	s and mu	ltiple child	class sho	ws:		
a) hierarchica						
25. A derived cla	, ,			*	s called	
a) multiple		le c) n				
26. Multiple base				,		
a) multiple	b) sing					
•	, ,			*	then their visibility	in sub class as a
a) Public	_	ected c) P		d) none	then then visionity	iii suo ciuss us u
,		,		,	y then their visibility	in suh class as
a	or or sup	er class win		a pasiican,	y then then visibility	in sub class as
a) Public b) pr	otected	c) Private	d) not	inherited		
, ,		,	,		ally then their visibil	lity in sub class
as a	inder of s	uper class v	viii iiiiici	iteu publica	any then then vision	ity iii sub class
a) Public b) p i	rotected	c) Private	d) nor	10		
		*			then their visibility i	n cuh aloce oc o
a) Public b) pr	_		d) nor	_	men men visibility i	ii sub ciass as a
			,		then their visibility	in sub aloss os o
a) Public b) pr				inherited	then their visibility	III Sub Class as a
, ·		,	,		.l., 4h an 4h ain -riaihili	4
•	inder of s	uper ciass v	viii inneri	itea private	ely then their visibili	ty in sub class as
a -> D1-1: - 1->	4 4 1	-) D 4-	1) 4			
a) Public b) pr			d) not		141 41	1 . 1
					then their visibility	in sub class as a
a) Public b) pr		,	,		41 41 • • • • • • • • • • • • • • • • •	
-	_			_	then their visibility	in sub class as a
a) Public b) p i		*	,			
_	mber of s	uper class v	vill inher	ited protect	ted then their visibil	ity in sub class
as a		\ D .	•			
a) Public b) p i		*		inherited		
36. The solution of				-		
a) virtual base		b)friend	c) Priv	vate d)	not inherited	
37. Which class is			•			
a) base b) al			d) all			
38. What is mean	-	_				
a) Deriving a	base class	s from derive	ed class			
b) Deriving a	derived c	lass from ba	se class			
c) Deriving a			nore than	one base o	class	
d) Deriving a	derived b	ase class				
39. Do nothing fu	ınction is	also called				
a) virtual fun	b) pur	e virtual fui	nction	c) abstract	d) all	
40. Virtual void	display()=	0; shows				

a) virtua	fun b) pure virtu	al function	c) abstract	d) all	
41. A functi	on declared in base o	class which has	no definition	relative to the base	class is called
a) virtua	fun b) pure virt u	ial function	c) abstract	d) all	
42. Virtual	function is an examp	le of			
43. a) dynan	nic type b) dynamic l	binding c) stat	ic binding	d) all	
44. we can (reate a virtual destr	uctor			
a. True	b) False				
	reate a virtual const	ructor			
a. True	b) False				
	containing pure virtu				
a) virtua	,	,	,		
	overloading means				
a) arg ty		•	,	one	
	n advantage of inher	ritance is reusa	bility		
a. True	b) False				
	ple inheritance visib	•			
a) comn	,	c) ::	d) no	one	
	perator can not be o				
	nem. access op.(.,.*)	,		· · · · · · · · · · · · · · · · · · ·	
			_	the same operation t	to be carried
	rently, depending or	n the object, is_			
A. inh	eritance				
B. pol	ymorphism				
C. ove	rfunctioning				
D. ove	rriding				
52. Which o	f the following conce	epts is used to i	mplement lat	te binding?	
	<u> </u>	-	-	ction d. Static function	on
	+ operator used to d				
a. New	b) Delete	c) Me	•	d) None	
55. If a clas	,	,		n class A, all through	public
	nce, then a class c m			, 0	•
a) O	nly protected and pub	lic data of C and	1 B		
b) O	nly protected and pub	lic data of C			
c) A	l data of C and privat	e data of A and	В		
d) P t	ıblic and protected d	lata of A and B	and All dat	a of C	
56. If a clas	s will serve as a base	class, most oft	en the base cl	lass data members ar	e:
a. privat	b. protected	c. pu b	olic	d. polymorphic	
57. Inherita	nce is the principle t	hat			
a) cl	asses with the same na	ame must be de	rived from on	e another	
b) K	nowledge of a genera	al category can	be applied to	o more specific object	S
	++ functions may be u				
*	ne function name may	•	· ·	producessors	
				. 9	
	f the following is not	a type of filme	ritance in C+	+;	
	parallel inheritance				
	ingle level inheritance	e			
c) Mu	lti level inheritance				
d) Mu	Itiple inheritance				

3)		ing is the correct inter	-	icai iiiici italice
	,	se class with one derive		
	b) more t	han one generations of	classes	
	c) one ba	ase class with more tha	n one derived classes	3
	d) more t	han one base classes wi	th one derived class.	
60	. Which one	of the following most	accurately describes '	"multiple inheritance"?
	a) When a c	hild class has both an "	is a " and a "has a " rel	lationship with its parent
	b) When two	o classes inherit from ea	ach other	
	c) (c) When	n a base class has two or	r more derived classes	
	d) (d) Wher	a child class has two	or more parent classe	es
		ke a class abstract by	•	
		ing it abstract using the	virtual keyword	
	` ′	g at least one member fo	•	tion
	• •	g at least one member		
		gall member function co	_	
62	` '	word is used for opera		
-	a) op	b)operator	c) inline	d)none
63	, •	abol is used to create m	,	
	a) Dot	b) Comma	c) Dollar	d) star
Uni	t 5			
1.	Any excent	tion specification appe	ars in·	
1.	a. main()	b. A catch		
	c. A try bloc		of the function that th	rows the exception
2.	•	ne following problem c		1
		sing semicolon in staten		
	_	roblem in calling function	on.	
		ntax error.		
2	,	ın-time error.		f J - 9
5.	(a) catch	word is used to check (b) throw	exception in the block (c) try	(d) none of these
4	` '	data members in a str	` '	(u) none of these
7.	(a) private			either a or b
5.	` / 1	of the following is corr	/ 1	
		n calls are resolved at co		
		a calls are resolved at co		
		y II is correct		
		h I and II are correct		
		y I is correct		
_	,	n I and II are incorrect	A 41 1 111 1 1	handana Alba dan G' l ' '
0.				heritance. Also class C is derived
	trom class I	8 through protected in	heritance. Then a cla	ss C member function can access

(A) Only the protected and public data of class B, none of class A

	(B)	Protecte	ed and public	data of	class A	and B			
	(C)	Public da	ata of class A	and priv	ate data	of class B			
	(D)	Private d	lata of both cla	asses A	and B				
7.	The ope	erator us	ed to access n	nember	functio	on of a clas	ss fro	om its object is	
	(a) *		(b) ::		(c):			(d).	
8.	Which h	neader file	e is required to	use file	e I/O op	erations?			
	a) <ifstr< th=""><th>ream>b)</th><th><ostream></ostream></th><th></th><th>c) <fst< th=""><th>ream></th><th></th><th>d) <iostream></iostream></th><th></th></fst<></th></ifstr<>	ream>b)	<ostream></ostream>		c) <fst< th=""><th>ream></th><th></th><th>d) <iostream></iostream></th><th></th></fst<>	ream>		d) <iostream></iostream>	
10.	Which s	tream cla	ss is to only w	rite on t	files?				
	a) ofstre	eam	b) ifstream	c) iost	ream	d) fstream	1		
11.	Which o	f the follo	owing is used	to create	e an out	put stream'	?		
	a) ofstre	eam	b) ifstream	c) iost	ream	d) fstream	1		
12.			owing is used	to create	e a strea	m that perf	form	s both input and output	
	operation		b) ifstream		c) iost	ream		d) fstream	
13.	,		owing is not u	sed as a	,		27	<i>a)</i> 1201 00111	
			b) ios::binary		c) ios:	_		d) ios::ate	
1 1	Dy defer	alt all the	files in C	ara anan	ad in		mada		
14.	a) Text	an, an unc	e files in C++ a	are open			mode		
15	′	the was of	b) Binary	dan	c) ISC	11		d) VTC	
13.			f ios::trunc mo		b) To	onan a fila	in or	utnut mada	
			in input mode			open a file		-	
1.6	*		· ·					isting file to zero	
10.			•	rauit mo			usin	g the ofstream class?	
17	a) ios::in		b) ios::out	.1 10	c) ios:	:app		d) ios::trunk	
Ι/.		ne return	type open() m	ethod?	\ 1	,		1) (1)	
10	a) int	C.1 C 11	b) char	1.	c) boo			d) float	
18.			wing is not us	ed to se	_			10.	
	a) ios::se		b) ios::end		c) ios:			d) ios::beg	
19.			_	fault mo			usın	g the ifstream class?	
	a) ios::in		b) ios::out		c) ios:			d) ios::trunk	
20.				fault mo				g the fstream class?	
	a) ios::in		b) ios::out		•	:in ios::ou		d) ios::trunk	
21.				o get the			of file	e pointer in a file?	
	a) tell_p		b) get_pos()		c) get_	•		d) tell_pos()	
22.	Which fu	inction is	used to reposi	tion the	file poi	nter?			
;	a) moveg	()	b) seekg()		c) cha	ngep()		d) go_p()	
23.	Which of	the follo	wing is used t	o move	the file	pointer to	start	of a file?	
	a) ios::bo	eg	b) ios::start		c) ios:	:cur		d) ios::first	
24.	Which of	f these is	the correct sta	tement a	about ec	of()?			
;	a) Returns	s true if a	file open for 1	eading	has reac	hed the ne	xt ch	aracter.	
1	b) Return	s true if a	file open for i	reading	has reac	ched the ne	xt wo	ord.	
(c) Return	s true if	a file open fo	r readii	ng has i	eached the	e end	l.	
(d) Return	s true if a	file open for i	reading	has reac	ched the mi	iddle		

25. Which of the foll	owing true about l	FILE *fp			
a) FILE is a str	ucture and fp is a	pointer to	the structur	re of FILE typ	oe .
b) FILE is a buff	ered stream				
c) FILE is a keyy	vord in C for repre	senting files	s and fp is a	variable of FIL	E type
d) FILE is a strea	ım				
26. Which of the foll	owing methods ca	n be used to	open a file	in file handling	g?
	b) Constructor			tor method	d) Both A and B
27. Which operator i	s used to insert the	data into fi	le?		
a) >>) <	d) None of	the above	
28. Which is correct	•				
					le.bin'', ios::out);
•	example.bin", ios:		. •	-	
29. Which member f	function is used to	determine w	hether the st	tream object is	currently associated
with a file?					
· •	b) Buf	c) Stri	ing	d) None of	f the above
30. getc() returns EC					
	reached b	_		ad a character	
c) Both A & B) None of th			
31. When fopen() is	-			.	
A. EOF	B. Null		ntime error		Compiler dependent
32. How many object	-	-	_		•
A. 1		_		_	istringstream
33. Which function i	=			=	N
A. Seekg	B. Seekp		· ·	-	None of the above
34. If we have object	B. ios::out				
A. ios::in 35. Which is correct			•		ios::out ios::trunk
	symax for, position kg(ios::end, n);	•		•	
•	ekg(n, ios::end);		•	kg(ii, ios.eiid),	
			eobject.seer	rg(10s.enu, 11),	
36. Which stream cla	ass is to only read	from files?			
a) <ifstream></ifstream>	b) <ostream></ostream>	c) <fs< td=""><td>tream></td><td>d) <iostrea< td=""><td>am></td></iostrea<></td></fs<>	tream>	d) <iostrea< td=""><td>am></td></iostrea<>	am>
37. Which among fo	llowing is used to	open a file i	n binary mo	de ?	
a) ios::in	b) ios::out	c) ios:	::app	d) ios::bii	nary
38. Which functions	allow to change th	ne location o	of the get and	l put positions	?
a) sg() and sp()	b) sekg() and sel	cp() c) go	g() and gop() d) seekg	() and seekp()
39. offset counted from	om the current pos	ition using '	?		
a) ios::curr	b) ios::cr	c) io	s::cur	d) ios::cu	ırrent
40. eof() is used to g	et				
a) easy code rev	view b) end o	f file	c) debug r	report d)	file close
41. Which of the foll a) ios::cur			e pointer? c) ios::end	d)	ios::set

42. Which value is place	ed in the base class	s?			
A. Derived values	B. Default t	ype values	C. I	Both 1	D. None
43. What is a template?					
A. A template is a f	ormula for creati	ing a generic c	lass		
B. A template is use	d to manipulate the	e class			
C. A template is use	d for creating the a	attributes			
D. None of the above	e				
44. Which of the follow	ing best defines the	e syntax for ter	mplate function	n ?	
A. template return	_type Function_Na	ame(Parameter	rs)		
B. template return	_type Function_Na	ame(Parameter	s)		
C. Both A and B	D. N	one of the above	ve		
45. Templates are abstra	act recipe for produ	icing a concret	e code, and it	is used for	
A. Producing functi	ons B. Pr	roducing classe	es		
C. Nothing	D. B (oth A and B			
46. How many parameter	ers are legal for no	n-type template	e?		
A. 1	B. 2	C. 3		D. 4	
Hint:integral or enur	meration type, Poir	nter to object of	r pointer to fui	nction, Refe	rence to object or
reference to function	on, Pointer to mem	ber.	-		· ·
47. How many kinds of	entities are directly	y parameterize	d in c++?		
A. 1	B. 2	C. 3		D. 4	
types, constants, and	l templates				
48. From where does the	-	erived?			
A. Regular non-tem	-	B. Template	ed class		
C. Both A or B	•	D. None of			
49. Can we have overloa	ading of the function	on templates?			
	_	lay Be	D. Can't Sa	.V	
50. A container class is	a class whose insta	ances are		•	
A. Containers	B. Functions	C. S	trings D. I	None of the	above
51. Which of the things	does not require in				
A. Functions	•	al member fun	ction C. I	Member clas	ss D. All
52. What can be passed	by non-type templ	ate parameters	during compi	le time?	
•	. Float	-	t expression		e of the above
53. What is other name	of full specialization		•		
A. Explicit speciali	-		nplicit special	ization	
C. Function overload			one of the abo		
54. A common activity		ntainer is called	d		
A. Functioning	B. Iterator		raversal	D. All o	of them
55. How many types of	templates are there				
	tion template and c		C. 3	3]	D. 4
56. Which is dependent	-	-			
A. Base class	B. Abstract of		C. Method	Γ	D. None

57. Pick out the correct statement about string template?

A	A. It is used to repl	ace a string.			
1	B. It is used to rep	olace a string w	ith another string a	nt runtime.	
(C. It is used to dele	ete a string.			
Ι	O. None of the abo	ve			
58.	Containers have the	he same types, t	hat's why they are ca	alled	
A	A. Heterogeneous	B. Hor	nogeneous	C. Vectors	D. None of them
59.	Which keyword is	s used to handle	the expection?		
	A. Try	B. Throw	C. Catch	D. None	e of the above
60.	Which is used to t	throw a exception	on?		
	A. Try	B. Throw	C. Catch	D. None	e of the above
61.	Which exception	is thrown by dy	namic_cast?		
	A. bad_cast	B. bad_typeid	C. bad_exce	ption D. bad_	alloc
62.	How do define the	e user-defined e	exceptions?		
	A. Inherting & o	verriding exce	ption class function	ality	
	B. Overriding cla	ss functionality			
	C. Inherting class	functionality			
	D. None of the a	bove			
63.	We can prevent a	function from t	hrowing any excepti	ons.	
	A. TRUE	B. FALSE	C. May Be	D. Can'	t Say
64.	In nested try block	k, if inner catch	handler gets execute	ed, then	?
	A. Program execu	ition stops imme	ediately.		
	B. Outer catch har	ndler will also g	get executed.		
	C. Compiler will j statements of r		er catch handler and	then executes rem	aining executable
	D. Compiler will	execute remai	ning executable sta	tements of outer	try block and then the
	main().		S		•
65.	Return type of une	caught_exception	on() is		
	A. int	B. bool	C. char *	D. doub	ole
66.	If inner catch hand	dler is not able	to handle the excepti	on then	·
	A. Compiler will	look for outer tr	y handler		
	B. Program termin	nates abnormall	y		
	C. Compiler will	check for app	ropriate catch hand	ller of outer try b	olock
	D. None of the ab	ove			
67.	Which type of pro	gram is recom	nended to include in	try block?	
	A. Static memory	allocation	B. Dynamic memo	ry allocation	
	C. Const reference	ee	D. Pointer		
68.	Which illustrate p	redefined excep	otions?		
	A. Memory alloc	ation error	B. I/O error		
	C. Both A and B	3	D. None of the above	ve .	
69.	What is not called	l terminate() fur	nction in an construc	tor?	

A. Main	B. Class	C. Des	tructor	D. None	e of the above	
70. Which statement	is used to catch all type	es of exc	ceptions?			
A. Catch()	B. Catch(Test t)	C. Cat	ch ()	D. None	of the above	
71. How to handle em	or in the destructor?					
A. Throwing	B. Terminate()		C. Both throw	ing & ter	minate	D. None
72. What kind of exce	eptions are available in	c++?				
A. Handled	B. Unhandled		C. Static	I	D. Dynamic	
74. What is the basic	of grouping standard e	xception	n classes,in c++	-?		
A. Catch	B. None of these		C. Error	1	D. Namespac	e s td
75. What is a count of	f standard exception?					
A. 9	B. 5		C. 6	I	D. 7	
76. What should be in	cluded in try block in	c++ pro	gramming lang	uage?		
A. Static value	B. Dynamic allocation	n	C. None of the	above	D. Cor	ıst value
77. How many standa	rd exception exist in c-	++?				
A. 9	B. 5	C. 6		D. 7		
78. Catch-all handlers	s uses which operators	in c++?				
A. String operator	B. Ternary ope	erators	C. Ellipses op	erators	D. Unary	operators
79. Uncaught exception	on will call which func	tion?				
A. Terminate	B. Catch	C. Non	e of the above	I	D. Throw	
80. How to handle ex	ception in constructor,	in c++?	•			
A. We have to re-	turn an exception	B. We	have to throw	an exce	ption	
C. Both A and B		D. Nor	ne of the above			
81. How many param	eters do the throw expr	ression l	has, in c++?			
A. 1	B. 2	C. 3		D. 4		
82. Which is used to l	nandle the exceptions i	n c++?				
A. catch handler	B. handler	C. exc	eption handle	r I	D. throw	
83. Exception handler	are declared with	_keywoı	rd			
A. try	B. Catch	C. thro	W	D. Final	ly	