Arts commerce and Science college Bodwad

Sem IV

Class: S Y BSc Computer

Subject : CPP programming II

MCQ with Highlighted bold Answer

- 1 What is the role of a constructor in classes?
- a) To modify the data whenever required
- b) To destroy an object
- c) To initialize the data members of an object when it is created
- d) To call private functions from the outer world
- 2 Why constructors are efficient instead of a function init() defined by the user to initialize the data members of an object?
- a) Because user may forget to call init() using that object leading segmentation fault
- b) Because user may call init() more than once which leads to overwriting values
- c) Because user may forget to define init() function
- d) All of the mentioned
- 3 What is a copy constructor?
- a) A constructor that allows a user to move data from one object to another
- b) A constructor to initialize an object with the values of another object
- c) A constructor to check the whether to objects are equal or not
- d) A constructor to kill other copies of a given object.
- 4 How many parameters does a default constructor require?
- a) 1
- b) 2
- c) 0
- d) 3
- 5. How constructors are different from other member functions of the class?
- a) Constructor has the same name as the class itself
- b) Constructors do not return anything
- c) Constructors are automatically called when an object is created
- d) All of the mentioned
- 6. How many types of constructors are there in C++?
- a) 1
- b) 2
- c) 3
- d) 4
- 7. What is the role of destructors in Classes?
- a) To modify the data whenever required

b) To destroy an object when the lifetime of an object ends c) To initialize the data members of an object when it is created d) To call private functions from the outer world 8. When destructors are called? a) When a program ends b) When a function ends

9. Which of the following gets called when an object is being created?

10. Destructor has a same name as the constructor and it is preceded by?

11. Like constructors, can there be more than one destructors in a class?

12. Which contructor function is designed to copy object of same class type?

c) When a delete operator is used

d) All of the mentioned

A. ConstuctorB. Virtual Function

C. Destructors

D. Main

A.! B.? C.~ D.\$

A. Yes
B. No
C. May Be
D. Can't Say

A. Copy constructorB. Create constructorC. Object constructorD. Dynamic constructor

A. Constructor
B. Destructor
C. Both A & B
D. None of the above

13. which of this can not be declared as virtual

14. . We must use initializer list in a constructor when

B. There is a constant variable in classC. There is an object of another class. And the other class doesn't have default constructorD. All of the above
15. Which of the following implicitly creates a default constructor when the programmer does not explicitly define at least one constructor for a class?
A. Preprocessor B. Linker C. Loader D. compiler
16. constructor to allow different approaches of object construction
A. Cannot overloaded B. Can be overloaded C. Can be called D. Can be nested
17. When are the Global objects destroyed?
 A. When the control comes out of the block in which they are being used B. When the program terminates C. When the control comes out of the function in which they are being used. D. As soon as local objects die
18. Choose the correct statements.
 A. A destructor is not inherited B. A constructor cannot be called explicitly C. A constructor is not inherited D. All of the above
19. Which of the following remarks about the differences between constructors and destructor are correct?
 A. Constructors can take arguments but destructors cannot. B. Constructors can be overloaded but destructors cannot be overloaded. C. Destructors can take arguments but constructors cannot. D. Both A and B
20. Allocation of memory to objects at the time of their construction is known as of objects.
A. Run time construction B. Dynamic Construction C. Initial Construction D. Staic Construction

A. There is a reference variable in class

21. When the inheritance is private, the private methods in base class are derived class (in C++).	in the
A. Inaccessible B. Accessible C. Protected D. Public	
22. Which design patterns benefit from the multiple inheritances?	
A. Adapter and observer pattern B. Code pattern C. Glue pattern D. None of the mentioned	
23. What is meant by multiple inheritance?	
 A. Deriving a base class from derived class B. Deriving a derived class from base class C. Deriving a derived class from more than one base class D. None of the mentioned 	
24. Inheritance allow in C++ Program?	
A. Class Re-usabilityB. Creating a hierarchy of classesC. ExtendibilityD. All of the above	
25. Can we pass parameters to base class constructor though derived class or derived constructor?	elass
A. Yes B. No C. May Be D. Can't Say	
26. What are the things are inherited from the base class?	
A. Constructor and its destructor B. Operator=() members C. Friends D. All of the above	
27. Which of the following advantages we lose by using multiple inheritance?	
A. Dynamic binding B. Polymorphism	

C. Both Dynamic binding & Polymorphism D. None of the mentioned
8. Which symbol is used to create multiple inhe
A Dot

28. Which symbol is used to create multiple inheritance?
A. Dot B. Comma C. Dollar D. None of the above
29 C++ Inheritance relationship is?
A. Association B. Is-A C. Has-A D. None of the above
30 Which value is placed in the base class?
A. Derived values B. Default type values C. Both A & B D. None of the mentioned
31class X, class Y and class Z are derived from class BASE. This is inheritance
A. Multiple B. Multilevel C. Hierarchical D. Single
32. Reusability of the code can be achieved in CPP through
A. Polymorphism B. Encapsulation C. Inheritance D. Both A and C
33 Private members of the class are not inheritable.
A. TRUE B. FALSE C. May Be D. Can't Say
34 Which keyword is used to handle the expection?

A. Try B. Throw

C. Catch D. None of the above	
35 Which is used to throw a exception?	
A. Try B. Throw C. Catch D. None of the above	
36 How do define the user-defined exceptions?	
A. Inherting & overriding exception class functionlity B. Overriding class functionlity C. Inherting class functionlity D. None of the above	
37 We can prevent a function from throwing any exceptions.	
A. TRUE B. FALSE C. May Be D. Can't Say	
38 In nested try block, if inner catch handler gets executed, then?	
 A. Program execution stops immediately. B. Outer catch handler will also get executed. C. Compiler will jump to the outer catch handler and then executes remaining executable statements of main(). D. Compiler will execute remaining executable statements of outer try block and then the main(). 	h
39 Return type of uncaught_exception() is	
A. int B. bool C. char * D. double	
40 If inner catch handler is not able to handle the exception then	
 A. Compiler will look for outer try handler B. Program terminates abnormally C. Compiler will check for appropriate catch handler of outer try block D. None of the above 	
41 Which type of program is recommended to include in try block?	

How many parameter does the throw expression has, in c++?

	A. 1
	B. 2
	C. 3
]	D. 4
49	base class and derived class relationship comes under
A.	Inheritance
В.	Polymorphism
	encapsulation
	None
50	Types of inheritance in C++ are
Δ	Multilevel
	Multiple
	Hierarchical
	All the above
υ.	An the above
51	Inheritance allow in C++ Program?
A.	Class Re-usability
	Creating a hierarchy of classes
	Extendibility
	All
52	Functions that can be inherited from base class in C++ program
A.	Constructor
B.	Destructor
C.	Static function
D.	None
53	members of base class are inaccessible to derived class
Δ	Private
	Protected
	Public
	None
D.	None
54	Accessing functions from multiple classes to a derived class is known as
A.	multiple inheritance
	single inheritance
	Hybrid inheritance
	multilevel inheritance
	What is a template?
	r

A. A template is a formula for creating a generic classB. A template is used to manipulate the classC. A template is used for creating the attributesD. None of the above	
56 Templates are abstract recipe for producing a concrete coo	le,
A. Producing functions B. Producing classes C. Nothing D. Both A and B	
57 From where does the template class derived?	
A. Regular non-templated C++ class B. Templated class	

58 Can we have overloading of the function templates?

59 A container class is a class whose instances are

60. How many types of templates are there in c++?

a) A problem that arises during the execution of a program

62 By default, what a program does when it detects an exception?

61 What is an exception in C++ program?

b) A problem that arises during compilation

b) Results in the termination of the program

c) Also known as the syntax errord) Also known as semantic error

a) Continue running

C. Both A or B
D. None of the above

A. ContainersB. FunctionsC. Strings

A. 1 B. 2 C. 3 D. 4

D. None of the above

A. Yes
B. No
C. May Be
D. Can't Say

and it is used for

- c) Calls other functions of the program
- d) Removes the exception and tells the programmer about an exception
- 63 Why do we need to handle exceptions?

a) To avoid unexpected behaviour of a program during run-time

- b) To let compiler remove all exceptions by itself
- c) To successfully compile the program
- d) To get correct output
- 64 How Exception handling is implemented in the C++ program?
- a) Using Exception keyword
- b) Using try-catch block
- c) Using Exception block
- d) Using Error handling schedules
- 65 Which part of the try-catch block is always fully executed?
- a) try part
- b) catch part
- c) finally part
- d) throw part
- 66 Which of the following is an exception in C++?
- a) Divide by zero
- b) Semicolon not written
- c) Variable not declared
- d) An expression is wrongly written
- 67 What is an error in C++?
- a) Violation of syntactic and semantic rules of a languages
- b) Missing of Semicolon
- c) Missing of double quotes
- d) Violation of program interface
- 68 What is the difference between error and exception?
- a) Both are the same
- b) Errors can be handled at the run-time but the exceptions cannot
- c) Exceptions can be handled at the run-time but the errors cannot
- d) Both can be handled during run-time
- 69 Which keyword is used to throw an exception?
- a) try
- b) throw
- c) throws
- d) except
- 70 Which of the header file is used to implement algorithms provided by C++ STL?
- a) <algorithm>
- b) < header>

c) <algos> d) < Algori> 71 Which of the following is a Modifying Sequence Operation? a) all_of() b) any_of() c) equal() d) swap() 72 Which of the following is a Non-modifying Sequence Operation? a) swap() b) transform() c) remove() d) search() 73 What is the property of stable sort function provided by the STL algorithm? a) sorts the elements of a sequence in ascending order preserving the relative order of equivalent elements b) sorts the elements of a sequence in descending order preserving the relative order of equivalent elements c) arranges the sequence randomly preserving the relative order of equivalent elements d) same as sort function of STL algorithm 75 Which function can be used to find the sum of a vector container? a) findsum() b) accumulate() c) calcsum() d) checksum() 77 Which header file is required to use accumulate() function? a) <algorithm> b) < numeric> c) < vector> d) <iostream> 78 Which header file is required to use file I/O operations? a) <ifstream> b) <ostream> c) <fstream> d) <iostream> 79 Which of the following is used to create an output stream? a) ofstream b) ifstream c) iostream d) fsstream 80 Which of the following is used to create a stream that performs both input and output

operations?a) ofstreamb) ifstream

c) iostream
d) fstream
81 Which of the following is not used as a file opening mode?
a) ios::trunc
b) ios::binary
c) ios::in
d) ios::ate
82 Which of the following statements are correct?
1) It is not possible to combine two or more file opening mode in open() method.
2) It is possible to combine two or more file opening mode in open() method.
3) ios::in and ios::out are input and output file opening mode respectively.
a) 1, 3
b) 2, 3
c) 3 only
d) 1, 2
84 By default, all the files in C++ are opened in mode.
a) Text
b) Binary
c) ISCII
d) VTC
85 What is the use of ios::trunc mode?
a) To open a file in input mode
b) To open a file in output mode
c) To truncate an existing file to half
d) To truncate an existing file to zero
87 Which of the following is the default mode of the opening using the ofstream class?
a) ios::in
b) ios::out
c) ios::app
d) ios::trunk
88 What is the return type open() method?
a) int
b) char
c) bool
d) float
89 Which of the following is not used to seek file pointer?
a) ios::set
b) ios::end
c) ios::cur
d) ios::beg
w/

90 Which of the following is the default mode of the opening using the ifstream class?
a) ios::in
b) ios::out
c) ios::app
d) ios::trunk
91 Which of the following is the default mode of the opening using the fstream class?
a) ios::in
b) ios::out
c) ios::in ios::out
d) ios::trunk
92 Which function is used in C++ to get the current position of file pointer in a file?
a) tell_p()
b) get_pos()
c) get_p()
d) tell_pos()
93 Which function is used to reposition the file pointer?
a) moveg()
b) seekg()
c) changep()
d) go_p()
94 Which of the following is used to move the file pointer to start of a file?
a) ios::beg
b) ios::start
c) ios::cur
d) ios::first
95 Members which are not intended to be inherited are declared as
a) Public members
b) Protected members
c) Private members
d) Private or Protected members
96 What is Inheritance in C++?
a) Wrapping of data into a single class
b) Deriving new classes from existing classes
c) Overloading of classes
d) Classes with same names
97 If a class is derived privately from a base class then
a) no members of the base class is inherited
b) all members are accessible by the derived class
c) all the members are inherited by the class but are hidden and cannot be accessible
d) no derivation of the class gives an error

- 98 Which statement is incorrect about virtual function.
- a) They are used to achieve runtime polymorphism

b) They are used to hide objects

- c) Each virtual function declaration starts with the virtual keyword
- d) All of the mentioned
- 99 The concept of deciding which function to invoke during runtime is called

a) late binding

- b) dynamic linkage
- c) static binding

d) both late binding and dynamic linkage

100 What is a pure virtual function?

- a) A virtual function defined inside the base class
- b) A virtual function that has no definition relative to the base class
- c) A virtual function that is defined inside the derived class
- d) Any function that is made virtual

**********Best Luck ********