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प्रश्नपुस्तिका क्रमांक Question Booklet No.

प्रश्नपुस्तिका सीरीज
Question Booklet Series
A

A

BCA (Second Semester) Examination, July-2022

Object Oriented Programming Using C++

BCA-2001

Time: 1:30 Hours Maximum Marks-100

जब तक कहा न जाय, इस प्रश्नपुस्तिका को न खोलें

- **निर्देश**: 1. परी
- परीक्षार्थी अपने अनुक्रमांक, विषय एवं प्रश्नपुस्तिका की सीरीज का विवरण यथास्थान सही
 सही भरें,
 अन्यथा मृल्यांकन में किसी भी प्रकार की विसंगित की दशा में उसकी जिम्मेदारी स्वयं परीक्षार्थी की होगी।
 - 2. इस प्रश्नपुस्तिका में 100 प्रश्न हैं, जिनमें से केवल 75 प्रश्नों के उत्तर परीक्षार्थियों द्वारा दिये जाने है। प्रत्येक प्रश्न के चार वैकल्पिक उत्तर प्रश्न के नीचे दिये गये हैं। इन चारों में से केवल एक ही उत्तर सही है। जिस उत्तर को आप सही या सबसे उचित समझते हैं, अपने उत्तर पत्रक (O.M.R. ANSWER SHEET) में उसके अक्षर वाले वृत्त को काले या नीले बाल प्वांइट पेन से पूरा भर दें। यदि किसी परीक्षार्थी द्वारा किसी प्रश्न का एक से अधिक उत्तर दिया जाता है, तो उसे गलत उत्तर माना जायेगा।

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- 3. प्रत्येक प्रश्न के अंक समान हैं। आप के जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
- 4. सभी उत्तर केवल ओ०एम०आर० उत्तर पत्रक (O.M.R. ANSWER SHEET) पर ही दिये जाने हैं। उत्तर पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
- 5. ओ॰एम॰आर॰ उत्तर पत्रक (O.M.R. ANSWER SHEET) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाय।
- 6. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी ओ०एम०आर० शीट उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें।
- 7. निगेटिव मार्किंग नहीं है।
- महत्वपूर्ण : प्रश्नपुस्तिका खोलने पर प्रथमतः जॉच कर देख लें कि प्रश्नपुस्तिका के सभी पृष्ठ भलीमॉित छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्ष निरीक्षक को दिखाकर उसी सीरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।

1.	In object oriented Programming the program is divided into
	(A) Class
	(B) Object
	(C) Function
	(D) None of these
2.	Which one is the Object Oriented Programming language?
	(A) Cobol
	(B) C
	(C) C++
	(D) Both C & C++
3.	The wrapping up of data and functions into a single unit is called
	(A) Inheritance
	(B) Encapsulation
	(C) Data hiding
	(D) Polymorphism
4.	The process by which objects of one class acquire the properties of objects of
	another class is called
	(A) Abstraction
	(B) Inheritance
	(C) Encapsulation
	(D) Polymorphism
5.	In OOP which concept provides the idea of reusability:
	(A) Inheritance
	(B) Encapsulation
	(C) Data hiding
	(D) Polymorphism

6.	The process of making an operator to exhibit different behaviours in different				
	instances is called				
	(A) Function overloading				
	(B) Operator overloading				
	(C) Inheritance				
	(D) None of these				
7.	The process of making a function to exhibit different behaviours in different				
	instances is called				
	(A) Function overloading				
	(B) Operator overloading				
	(C) Inheritance				
	(D) None of these				
8.	Objects communicate with one another by using				
	(A) Message passing				
	(B) Operator overloading				
	(C) Inheritance				
	(D) Both (A) & (B)				
9.	Through we can eliminate redundant code and extend the use of				
	existing class.				
	(A) Inheritance				
	(B) Operator overloading				
	(C) Encapsulation				
	(D) Both (A) & (B)				
10.	The principle helps the programmer to build secure programs.				
	(A) Operator overloading				
	(B) Encapsulation				
	(C) Data hiding				
	(D) Polymorphism				

11.	What are the basic run time entities in an object oriented program?
	(A) Objects
	(B) Functions
	(C) Datas
	(D) None of these
12.	OOPs follows approach during program design.
	(A) Top down
	(B) Bottom-up
	(C) Both (A) & (B)
	(D) None of these
13.	The technique of Hiding internal details in an object is called
	(A) Encapsulation
	(B) Functions
	(C) Abstraction
	(D) Inheritance
14.	Classes are datatype.
	(A) Derived
	(B) User-defined
	(C) Built-in
	(D) Both (A) & (C)
15.	provides interface between the object's data and program.
	(A) Object
	(B) Functions
	(C) Class
	(D) Polymorphism

16.	refers to the linking of procedure call to the code to be executed in
	response to the call.
	(A) Polymorphism
	(B) Functions
	(C) Dynamic binding
	(D) Object
17.	A for an object is a request for execution of a procedure.
	(A) Object
	(B) Functions
	(C) Dynamic binding
	(D) Message discuss
18.	The << operator is known as
	(A) Put to
	(B) Get from
	(C) Insertion
	(D) Both (A) & (C)
19.	The >> operator is known as
	(A) Put to
	(B) Get from
	(C) Extraction
	(D) Both (B) & (C)
20.	contains function prototype for the standard input and output
	functions.
	(A) iomanip.h
	(B) iostream.h
	(C) stdlib.h
	(D) Both (A) & (B)

21.	In C++ default return type for all the functions is			
	(A) Int			
	(B) Void			
	(C) Float			
	(D) None of these			
22.	The multiple use of input and output operator is called			
	(A) Polymorphism			
	(B) Inheritance			
	(C) Cascading			
	(D) None of these			
23.	Which of the following is not a feature of OOPs?			
	(A) Polymorphism			
	(B) Inheritance			
	(C) Dynamic binding			
	(D) None of these			
24.	By default, the members of a C++ class are :			
	(A) Private			
	(B) Public			
	(C) Protected			
	(D) None of these			
25.	Which of the following function that must contain in all C++ Programs :			
	(A) start()			
	(B) system()			
	(C) main()			
	(D) program()			

26.	Which one of the following is the correct operator to compare two values:
	(A) :=
	(B) =
	(C) Equal
	(D) = =
27.	C++ is originally developed by :
	(A) Nicolas Wirth
	(B) Dennis Ritchi
	(C) Bjarne Stroustrup
	(D) Ken Thompson
28.	Identify the unary operator:
	(A) ?,:
	(B) ++
	(C) +
	(D) %
29.	The are used to check the relationship between two numeric operands or
	expressions.
	(A) Logical operators
	(B) Relational operators
	(C) Arithmetic operators
	(D) Bitwise operators
30.	is a function that is expanded in line when it is invoked.
	(A) Library function
	(B) User defined function
	(C) Inline function
	(D) None of these

31.	The qualifier tells the compiler that the function should not modify
	the argument.
	(A) Const
	(B) Static
	(C) Constant
	(D) Inline
32.	refers to the use of the same thing for different purpose.
	(A) Function declaration
	(B) Overloading
	(C) Function calling
	(D) Prototyping
33.	The functions declared inside the class is known as
	(A) Data members
	(B) Library functions
	(C) Member functions
	(D) User defined functions
34.	Calling a member function by using its name from another member function of the
	same class is known as
	(A) Grouping of member function
	(B) Member function group
	(C) Nesting of member function
	(D) Nested group of member function
35.	function can only be called by another function that is a member of its
	class.
	(A) Member function
	(B) Private member function
	(C) Nested member function
	(D) Public member function

<i>3</i> 6.		are normally used to	maintain values common to the entire class.		
	(A)	Dynamic variables			
	(B)	Static variables			
	(C)	Private variables			
	(D)	Public variables			
37.	A st	tatic variable is initialized to	when the first object of its class is		
	crea	created.			
	(A)	1			
	(B)	Null			
	(C)	0			
	(D)	None of these			
38.	A function calling itself:				
	(A) Inline function				
	(B)	Static function			
	(C)	Friend function			
	(D)	Recursion			
39.	Which of the following is not a type of constructor?				
	(A) Copy constructor				
	(B)	Friend constructor			
	(C)	Default constructor			
	(D)	Parameterized construct			
40.	Con	structor is executed when	·		
	(A) An object is created				
	(B) An object is used				
	(C)	A class is declared			
	(D)	An object goes out of scope			

41.	Which of the following also known as an instance of a class?
	(A) Friend functions
	(B) Object
	(C) Member functions
	(D) Member Variables
42.	A constructor that accepts parameters is called the default
	constructor.
	(A) One
	(B) Two
	(C) No
	(D) Three
43.	Destructor has the same name as the constructor and it is preceded by
	(A) !
	(B) ?
	(C) ~
	(D) \$
44.	Which constructor function is designed to copy objects of the same class type?
	(A) Create constructor
	(B) Object constructor
	(C) Dynamic constructor
	(D) Copy constructor
45.	Which of the following statement is correct?
	(A) A constructor has the same name as the class in which it is present
	(B) A constructor has a different name than the class in which it is present
	(C) A constructor always returns an integer
	(D) A constructor cannot be overloaded

46.	A destructor takes arguments.
	(A) One
	(B) Two
	(C) Three
	(D) No
47.	Destructor calls are made in which order of the corresponding constructor calls?
	(A) Reverse order
	(B) Forward order
	(C) Depends on how the object is constructe
	(D) Depends on how many objects are constructed
48.	Which allows you to create a derived class that inherits properties from more than
	one base class?
	(A) Multilevel inheritance
	(B) Multiple inheritance
	(C) Hybrid inheritance
	(D) Hierarchical inheritance
49.	A derived class with only one base class:
	(A) Multilevel inheritance
	(B) Multiple inheritance
	(C) Single inheritance
	(D) Hierarchical inheritance
50.	The duplication of inherited members due to the multiple paths can be avoided by
	making a common base class is called:
	(A) Abstract class
	(B) Virtual base class
	(C) Multiple inheritance
	(D) Nesting of classes

51.	The operators can't be overloaded:	
	(A) Binary operators	
	(B) Unary operators	
	(C) Ternary operator	
	(D) None	
52.	A friend function for unary operator overloading takes	arguments.
	(A) Zero	
	(B) One	
	(C) Two	
	(D) None	
53.	A friend function for binary operator overloading takes	arguments.
	(A) Zero	
	(B) One	
	(C) Two	
	(D) None	
54.	The variable that contains the address of constant or variable:	
	(A) Function	
	(B) Array	
	(C) Pointer	
	(D) Structure	
55.	The memory management operator in c++:	
	(A) New & delete	
	(B) Malloc	
	(C) Calloc	
	(D) Free	

56.	The pointer refers to an object that has called the member function currently:
	(A) This
	(B) Address
	(C) Virtual function
	(D) None
57.	The empty virtual function are called:
	(A) Pure / do nothing
	(B) Virtual table
	(C) Polymorphism
	(D) Virtual base class
58.	A stream of byte that is the interface between IO and IO devices:
	(A) Streams
	(B) Class
	(C) Object
	(D) File
59.	The class that derived from standard library ios contain input functions :
	(A) Ios
	(B) iostream
	(C) istream
	(D) ostream
60.	The class that derived from standard library ios contain output functions :
	(A) Ios
	(B) iostream
	(C) istream
	(D) ostream

61.	Which function is in the ostream class:
	(A) get()
	(B) read()
	(C) write
	(D) cin
62.	Which function is in the istream class:
	(A) get()
	(B) put()
	(C) write
	(D) cout
63.	The standard library inherited from istream & ostream:
	(A) Ios
	(B) iostream
	(C) ifstream
	(D) ofstream
64.	The function used to receive one character at a time:
	(A) get()
	(B) put()
	(C) getline()
	(D) write()
65.	The function used to display one character at a time:
	(A) get()
	(B) put()
	(C) getline()
	(D) write()

66.	The function used to receive one line at a time:
	(A) get()
	(B) put()
	(C) getline()
	(D) write()
67.	The function used to display one line at a time:
	(A) get()
	(B) put()
	(C) getline()
	(D) write()
68.	are the reserved words of the programming language.
	(A) Tokens
	(B) Literals
	(C) Separators
	(D) Keywords
69.	refer to the names of variables, functions, arrays, classes, etc.
	(A) Identifiers
	(B) Operators
	(C) Punctuators
	(D) Manipulators
70.	Write the range of value of the data type 'char':
	(A) 0 to 128
	(B) 0 to 255
	(C) -255 to 255
	(D) -128 to 127

71.	A	is the name of the storage location:
	(A)	Identifier
	(B)	Variable
	(C)	Keyword
	(D)	Token
72.	Arra	y indexing always starts with the number:
	(A)	0
	(B)	1
	(C)	2
	(D)	\0
73.	We	declare a function with if it does not have any return type.
	(A)	Long
	(B)	Double
	(C)	Void
	(D)	Int
74.	Whi	ch of the following is selection statement in C++?
	(A)	break
	(B)	goto
	(C)	exit
	(D)	switch
75.	Whi	ch of the following is a correct comment?
	(A)	*/ Comments */
	(B)	** Comment **
	(C)	/* Comment */
	(D)	{ Comment }

76.	To increase the value of c by one which of the following statement is wrong?
	(A) c++;
	(B) $c = c + 1$;
	(C) $c + 1 => c$;
	(D) $c + = 1$
77.	When following piece of code is executed, what happens ? $b = 3$; $a = b++$; ?
	(A) A contains 3 and b contains 4
	(B) A contains 4 and b contains 4
	(C) A contains 4 and b contains 3
	(D) A contains 3 and b contains 3
78.	How many times is a do while loop guaranteed to loop?
	(A) 0
	(B) Infinitely
	(C) 1
	(D) Variable
79.	Which of the following is not a valid relational operator?
	(A) = =
	(B) =>
	(C) >=
	(D) >=
80.	Strings are character arrays. The last index of it contains the null-terminated
	character:
	$(A) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	(B) \t
	(C) \0
	(D) \1

81. What will be the values of x, m and n after the execution of the following statements?

Int x, m, n; m = 10; n = 15; x = ++m + n++;

- (A) x=25, m=10, n=15
- (B) x=26, m=11, n=16
- (C) x=27, m=11, n=16
- (D) x=27, m=10, n=15

82. Consider the following statements: int x = 22, y=15; x = (x>y)? (x+y): (x-y); What will be the value of x after executing these statements?

- (A) 22
- (B) 37
- (C) 7
- (D) Error. Cannot be executed

83. Which of the following keywords is used to control access to a class member?

- (A) Default
- (B) Break
- (C) Protected
- (D) Asm

84. Which of the following means "The use of an object of one class in definition of another class"?

- (A) Encapsulation
- (B) Inheritance
- (C) Composition
- (D) Abstraction

85. A derived class is also called a _____.

- (A) Small class
- (B) Subclass
- (C) Noticeable class
- (D) Big class

86.	Which of these inheritances is shown in case we inherit some base class from			
	another class, then one of the classes derives it?			
	(A) Single			
	(B) Multiple			
	(C) Multi-level			
	(D) Hierarchical			
87.	is the universal handler class for exceptions.			
	(A) Maths			
	(B) Object			
	(C) Exceptions			
	(D) Errors			
88.	Conversion of data type is called:			
	(A) Self referencing			
	(B) Type casting			
	(C) Virtual function			
	(D) Abstract class			
89.	The function contain in the ios class to set width:			
	(A) width()			
	(B) precision()			
	(C) fill()			
	(D) setf()			
90.	The function contain in the class iomanip to set width:			
	(A) setw()			
	(B) set precision()			
	(C) set fill()			
	(D) setiosflags()			

91.	How many default constructors per class are possible?	
	(A) Only one	
	(B) Two	
	(C) Three	
	(D) Unlimited	
92.	How many times a constructor is called in the life-time of an object?	
	(A) Only once	
	(B) Twice	
	(C) Thrice	
	(D) Depends on the way of creation of object	
93.	The mechanism of deriving one base class with more than one derived	classes:
	(A) Multilevel inheritance	
	(B) Multiple inheritance	
	(C) Hybrid inheritance	
	(D) Hierarchical inheritance	
94.	Which of the following is not correct:	
	(A) Only existing operator can be overloaded	
	(B) The overloaded operator must have at least one operand	
	(C) We can change the basic meaning of the operator	
	(D) Overloaded operators follow the syntax rule of original operator	
95.	A member function for unary operator overloading takes	_ arguments.
	(A) Zero	
	(B) One	
	(C) Two	
	(D) None	

96.	Whi	ch of the following function / type of function cannot be overloaded?
	(A)	Member function
	(B)	Static function
	(C)	Virtual function
	(D)	Both (B) and (C)
97.	Cop	y constructor must receive its arguments by
	(A)	Either pass-by-value or pass-by-reference
	(B)	Only pass-by-value
	(C)	Only pass-by-reference
	(D)	Only pass by address
98.	The	break statement causes an exit:
	(A)	From the innermost loop only
	(B)	Only from the innermost switch
	(C)	From all loops & switches
	(D)	From the innermost loop or switch
99.	The	arrays of variable that are of the type class:
	(A)	Array of object
	(B)	Pointer
	(C)	Object
	(D)	Structure
100.	Whi	ch of the following type of data member can be shared by all instances of its
	class	s?
	(A)	Public
	(B)	Inherited
	(C)	Static
	(D)	Friend

Rough Work / रफ कार्य

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