D. 11.37	Paper Code			प्रश्नपुस्तिका क्रमांक Question Booklet No.
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O.M.R. Serial No.				प्रश्नपुस्तिका सीरीज Question Booklet Series
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B.C.A.(Third Semester) Examination, February/March-2022 BCA-301(N)

Object Oriented Programming Using C++

Time: 1:30 Hours Maximum Marks-100

जब तक कहा न जाय, इस प्रश्नपुस्तिका को न खोलें

- निर्देश: 1. परीक्षार्थी अपने अनुक्रमांक, विषय एवं प्रश्नपुस्तिका की सीरीज का विवरण यथास्थान सही— सही भरें, अन्यथा मृल्यांकन में किसी भी प्रकार की विसंगति 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 निर्धारित प्रश्नों से अधिक प्रश्नों के उत्तर दिये जाते हैं तो उसके द्वारा हल किये गये प्रथमतः यथा निर्दिष्ट प्रश्नोत्तरों का ही मूल्यांकन किया 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 प्रश्नपुस्तिका बुकलेट एवं ओ०एम०आर० शीट पृथक-पृथक 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 भलीभॉति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्ष निरीक्षक को दिखाकर उसी सीरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।

1.	Which concept allows you to reuse the written code in C++?
	(A) Inheritance
	(B) Polymorphism
	(C) Abstraction
	(D) Encapsulation
2.	Can we have overloading of the function templates?
	(A) Yes
	(B) No
	(C) May be
	(D) Can't Say
3.	Which of the following is not a type of Constructor?
	(A) Copy constructor
	(B) Friend constructor
	(C) Default constructor
	(D) Parameterized constructor
4.	Which operator has more precedence among the following?
	*
	++
	+
	_
	(A) *
	(B) ++
	(C) +
	(D) -

```
5.
      int main()
      int i=0, x=0;
      for (i=1; i<10; i*=2)
      {
        x++;
        cout << x;
      }
      cout<<x;
      return 0;
      }
      (A) 1234567899
      (B) 12345678910
      (C) 123455
      (D) 12344
      Which of the following cannot be a friend?
6.
      (A) Function
      (B) Object
      (C) Class
      (D) Operator function
      What should be printed on screen?
7.
      int main()
      {
      int x = 5;
      if (x++==5)
      cout<<"Five"<<endl;
      else
      if (++x = = 6)
      cout << "Six" << endl;
      return 0;
      }
      (A) Five Six
      (B) Five
      (C) Six
      (D) None of these
```

8. Which operator has highest precedence in * / %? (A) * (B) / (C) % (D) All have same precedence 9. class base { public: base() cout<<"BCon"; \sim base() cout<<"BDest "; **}**; class derived: public base { public: derived() cout<<"DCon"; ~ derived() cout<<"DDest"; **}**; int main() derived object; return 0; (A) Dcon DDtest (B) Dcon DDest BCon BDest (C) BCon DCon DDest BDest (D) BCon DCon BDes DDest

10. What is the output of below program? int main() int a = 10; cout<<a++; return 0; } (A) 10 (B) 11 (C) 12 (D) Not defined 11. What are the actual parameters in C++? (A) Parameters with which functions are called (B) Parameters which are used in the definition of a function (C) Variables other than passed parameters in a function (D) Variables that are never used in the function 12. What will be the output of the following C++ code? #include <iostream> using namespace std; int main() int a, b, c; a = 2;b = 7; c = (a > b)?a:b;cout << c; return 0; } (A) 12 (B) 14 (C) 6 (D) 7

13.	What is meant by a polymorphism in C++?
	(A) Class having only single form
	(B) Class having four forms
	(C) Class having many forms
	(D) Class having two forms
14.	Which keyword is used to define the macros in C++?
	(A) #macro
	(B) #define
	(C) macro
	(D) define
15.	Which of the following approach is used by C++?
	(A) Left-right
	(B) Right-left
	(C) Bottom-up
	(D) Top-down
16.	Which of the following is used for comments in C++?
	(A) /*comment*/
	(B) //comment*/
	(C) //comment
	(D) Both // comment or /* comment */
17.	Who invented C++?
	(A) Dennis Ritchie
	(B) Ken Thompson
	(C) Brian Kernighan
	(D) Bjarne Stroustrup

18.	Suppose we are overloading a binary operator with friend function, how many
	parameter of argument we have to pass:
	(A) 1
	(B) 2 (C) 3
	(D) None of the above
19.	How many types of templates are there in C++?
	(A) 1
	(B) 2
	(C) 3
	(D) 4
20.	Destructor has a same name as the constructor and it is preceded by?
	(A) !
	(B) ?
	(C) ~
	(D) \$
21.	A class serves as base class for many derived classes it is called:
	(A) Polymorphism
	(B) Multipath inheritance
	(C) Hierarchical inheritance
	(D) None of these
22.	Why do we need to handle exceptions?
	(A) To prevent abnormal termination of program
	(B) To encourage prone program
	(C) To avoid syntax
	(D) T save memory

23.	We are overloading a unary operator without friend function how many arguments
	we have to pass:
	(A) 1
	(B) 2
	(C) 0
	(D) None of these
24.	Which statement is used to catch all types of exceptions?
	(A) catch()
	(B) catch(test 1)
	(C) catch()
	(D) catch(test)
25.	Which of the following is an exception in C++?
	(A) Semicolon not written
	(B) Divide by zero
	(C) Variable not declared
	(D) An expression is wrongly written
26.	The C++ code which causes abnormal termination behaviour of a program should
	be written under block.
	(A) Throw
	(B) Catch
	(C) Finally
	(D) Try
27.	When an object-oriented program detects an error within a function, the
	function
	(A) Throws an exception
	(B) Throws a fit
	(C) Catches a message
	(D) Catches an exception

28.	The	return type you code for all constructors is			
	(A)	Void			
	(B)	The class type			
	(C)	The same type as the first data member defined in the class			
	(D)	No type			
29.	The compiler converts your C++ instructions into				
	(A)	Edited code			
	(B)	Object code			
	(C)	Source code			
	(D)	Translated code			
30.	Ove	rloaded functions are required to:			
	(A)	Have the same return type			
	(B)	Have the same number of parameters			
	(C)	Perform the same basic functions			
	(D)	None of the above			
31.	The	Statement int $n[4] = \{11, -13, 17, 105\};$			
	(A)	Assigns the value – 13 to [2]			
	(B)	Assigns the value 17 to n[2]			
	(C)	Is wrong; it gives an error message			
	(D)	Assigns the value 18 to n[2]			
32.	An a	asterisk placed after a data type means.			
	(A)	Array to			
	(B)	Pointer to			
	(C)	Address to			
	(D)	Located to			

33.	The generic name used for unexpected errors that occur during the execution of a
	program is:
	(A) Infractions
	(B) Exceptions
	(C) Deviations
2.4	(D) Anomalies
34.	Variables that are declared in a block are known as variables to that block.
	(A) Confined
	(B) Local
	(C) Global
	(D) Immediate
35.	The feature by which one object can interact with another object is
	(A) message passing
	(B) message reading
	(C) data transfer
	(D) data binding
36.	How many catch blocks can a class have?
	(A) 2
	(B) 3
	(C) As many required
	(D) Only 1
37.	How many access specifier are there in C++?
	(A) 1
	(B) 2
	(C) 3
	(D) 4

38.	If a derived class uses the public access specifier, then .
	(A) public base class members remain public in the derived class
	(B) protected base class members become public in the derived class
	(C) Both (A) and (B)
	(D) Neither (A) not (B)
39.	The members of a class are by default:
	(A) Private
	(B) Public
	(C) Protected
	(D) None of these
40.	If you declare two objects as Customer firstCust, secondCust; which of the
	following must be true?
	(A) Each object's non-static data members will be stored in the same memory
	location
	(B) Each object will be stored in the same memory location
	(C) Each object will have a unique memory address
	(D) You cannot declare two objects of the same class
41.	A static data member is given a value:
	(A) Within the class definition
	(B) Outside the class definition
	(C) When the program is executed
	(D) Never
42.	Which of the following is not a member of the class:
	(A) Static function
	(B) Friend function
	(C) Const function
	(D) Virtual function

```
43.
     The output of following code is:
      #include <iostream.h>
      int main()
        int v = 8;
        while (v>0)
        v--;
        cout<<v;
        return 0;
      }
     (A) 876543210
     (B) 87654321
     (C) 8
     (D) 0
     What will be the output of following program?
44.
     main()
      {
        int a = 4, b = 9;
        cout << (a>b?a:b);
      }
     (A) 4
     (B) 9
     (C) Syntax error
     (D) None of these
     What is the value of a in below program?
45.
     int main()
      {
     int a, b=20;
     a = 90/b;
     return 0;
     (A) 4.5
      (B) 4.0
      (C) 4
      (D) Compilation Error
```

46.	Which of the foll	owing is the correct syntax to print the message in C++ language?
	(A) cout<<"Hel	lo world!";
	(B) cout< <hello< td=""><td>world!;</td></hello<>	world!;
	(C) cout<<"Hel	lo world!;
	(D) None of the	above
47.	Which keyword i	s used for the template?
	(A) Template	
	(B) template	
	(C) Temp	
	(D) temp	
48.	In multiple catch	() statement the number of throw statement are:
	(A) Same as cate	ch statement()
	(B) Twice then	catch statement()
	(C) Only one th	row statement
	(D) None of the	above
49.	Exception is gene	erated in:
	(A) Try block	
	(B) Catch block	
	(C) Throw block	ζ
	(D) None of the	above
50.	Function template	e are normally defined:
	(A) in function i	main()
	(B) Globally	
	(C) Anywhere	
	(D) In an class	

51.	Select the correct template function:
	(A) template < class T >
	(B) class < template T >
	(C) template < T >
	(D) None of the above
52.	Function template can accept:
	(A) Only one parameters
	(B) Only two parameters
	(C) Any number of parameters
	(D) None of the above
53.	Template class is also called as:
	(A) Base class
	(B) Container class
	(C) Virtual class
	(D) Generic class
54.	Templates are suitable for:
	(A) Any data type
	(B) Basic data type
	(C) Derived data type
	(D) All of the above
55.	The object of fstream class provides:
	(A) Both read and write operations
	(B) Only read operation
	(C) Only write operation
	(D) None of the above
56.	When a file is opened in read or write mode the file pointer is set:
	(A) At the beginning of the file
	(B) At the end of file
	(C) In the middle of the file
	(D) All of the above
57.	To add data at the end of the file the filemust be opened in:
	(A) Append mode
	(B) Read mode
	(C) Write mode
	(D) Both (A) and (C)
	(-) (-)

58.	3. Command line arguments are used with:	
	(A)	main()
	(B)	Member function
	(C)	With all function
	(D)	None of the above
59.	The	eof()stand for:
	(A)	Error of file
	(B)	Error opening file
	(C)	End of file
	(D)	None of the above
60.	A po	ointer to base class object can hold address of:
	(A)	Only derived class object
	(B)	Only base class object
	(C)	Address of base class object and its derived class object
	(D)	None of the above
61.	Whi	ch among the following doesn't come under OOP concept?
	(A)	Data hiding
	(B)	Message passing
	(C)	Platform independent
	(D)	Data binding
62.	Stati	ic binding is done at the time of:
	(A)	Compilation of the program
	(B)	At run-time
	(C)	Both (A) and (B)
	(D)	None of the above

63.	A virtual member function is a member function that can:
	(A) Be overridden by a sub class
	(B) Be derived from another class
	(C) Move to any class
	(D) All of the above
64.	Which class is used to design the base class?
	(A) Derived & base class
	(B) Derived class
	(C) Base class
	(D) Abstract class
65.	In C++ it is possible to pass values to function by:
	(A) Call by value
	(B) Call by address
	(C) Call by reference
	(D) All of the above
66.	The new operator is used to:
	(A) Allocate memory
	(B) Deallocate memory
	(C) Delete object
	(D) None of the above
67.	Array elements are stored in:
	(A) Continuous memory locations
	(B) Different memory locations
	(C) CPU registers
	(D) None of the above

68.	How many minimum numbers of functions are need to be presented in C++?
	(A) 0
	(B) 1
	(C) 2
	(D) 3
69.	Virtual functions are mainly used to achieve
	(A) Compile time polymorphism
	(B) Interpreter polymorphism
	(C) Runtime polymorphism
	(D) Functions code polymorphism
70.	An integer type pointer can hold only address of:
	(A) integer variable
	(B) float variable
	(C) Any variable
	(D) None of the above
71.	Private data of any class is accessed by:
	(A) Only public member functions of the same class
	(B) Directly by the object
	(C) Only private member function of the same class
	(D) Both (A) and (C)
72.	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

73.	Which is the correct syntax of inheritance?
	(A) class derived_classname : base_classname {/*define class body*/};
	(B) class base_classname : derived_classname{/*define class body*/};
	(C) class derived_classname : access base_classname {/*define class body*/};
	(D) class base_classname : access derived_classname {/*define class body*/};
74.	In single inheritance, constructors are executed from:
	(A) Derived class to base class
	(B) Base class to derived class
	(C) Both (A) and (B)
	(D) None of the above
75.	In multilevel inheritance, the middle class acts as:
	(A) Base class as well as derived class
	(B) Only base class
	(C) Only derived class
	(D) None of the above
76.	Identify the access specifier:
	(A) public
	(B) virtual
	(C) void
	(D) class
77.	Class A is a base class of class B. The relationship between them is:
	(A) Kind of relationship
	(B) Has a relationship
	(C) Is a relationship
	(D) None of the above

78.	The ambiguity of members normally occurs in:
	(A) Single inheritance
	(B) Multilevel inheritance
	(C) Multiple inheritance
	(D) None of the above
79.	Which one of the following operator cannot be overloaded:
	(A) Dot operator (.)
	(B) Plus operator (+)
	(C) & ampersand operator
	(D) operator
80.	A, B and C are objects of same class. To execute the statement C=A+B the operator
	must be overloaded
	(A) +
	(B) =
	(C) Both (A) and (B)
	(D) None of the above
81.	Like constructors can there be more than one destructor in a class:
	(A) Yes
	(B) No
	(C) May be
	(D) Can't say
82.	The keyword operator is used to overload an:
	(A) Function
	(B) Operator
	(C) Class
	(D) None of the above

83.	Cons	structors and destructors are automatically invoked by:
	(A)	main() function
	(B)	Operating system
	(C)	Object
	(D)	Compiler
84.	The	destructor is executed when:
	(A)	When object contains nothing
	(B)	When object is not used
	(C)	Object goes out of scope
	(D)	None of the above
85.	Cons	structor is executed when:
	(A)	Object is declared
	(B)	Object is destroyed
	(C)	Both (A) and (B)
	(D)	None of the above
86.	How	many parameters does a default constructor requires:
	(A)	1
	(B)	2
	(C)	0
	(D)	3
87.	The	size of object is equal to:
	(A)	Total size of member data variables
	(B)	Total size of member functions
	(C)	Both (A) and (B)
	(D)	None of the above

88.	A non-member function that can access the private data of class is known as:
	(A) Library function
	(B) Static function
	(C) Member function
	(D) Friend function
89.	The members of struct are by default:
	(A) Protected
	(B) Private
	(C) Public
	(D) None of the above
90.	C++ provides inline functions to facilitate reduce function call overhead, mainly
	for:
	(A) Small functions
	(B) Large functions
	(C) Member functions
	(D) None of the above
91.	The use of parenthesis is optional with one of the following statement:
	(A) clrscr
	(B) exit
	(C) main
	(D) return
92.	The concept of declaring same function name with multiple definition is:
	(A) Operator overloading
	(B) Function overloading
	(C) Both (A) and (B)
	(D) None of the above

93.	Every expression always return:		
	(A) 0 or 1		
	(B) 1 or 2		
	(C) -1 or 0		
	(D) None of the above		
94.	The curly braces are not present; the scope of loop statement is:		
	(A) Four statement		
	(B) Two statement		
	(C) One Statement		
	(D) None of the above		
95.	What will be the output of the following program:		
	#include <iostream.h></iostream.h>		
	void main()		
	{		
	for (int i=0;i<5;i++)		
	{		
	cout< <i;< td=""></i;<>		
	}		
	cout<<" i="< <ii< td=""></ii<>		
	}		
	(A) 01224:-5		

- (A) 01234 i=5
- (B) Undefined symbol i
- (C) 012345
- (D) None of the above

96. What will be the output of the following program: #include <iostream.h> void main() { char*n; cout<<sizeof(n);</pre> } (A) 2 (B) 1 (C) 4 (D) None of the above 97. The new and delete are: (A) Operators (B) Keywords (C) Both (A) and (B) (D) None of the above 98. The manipulator << endl is equivalent to-(A) '\n' (B) '\t' (C) '\b' (D) None of the above

99.	The method by which objects of one class get the properties of objects of another
,,,	
	class is known as:
	(A) Encapsulation
	(B) Inheritance
	(C) Abstraction
	(D) None of the above
100.	The packing of data and functions into a single component is:
	(A) Encapsulation
	(B) Polymorphism
	(C) Abstraction
	(D) None of the above

Rough Work / रफ कार्य

Rough Work / रफ कार्य

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