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d) static

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SHIVAJI UNIVERSITY, KOLHAPUR DATTAJIRAO KADAM ARTS, SCIENCE AND COMMERCE COLLEGE, ICHALKARANJI B.C.A. Part-II Semester-IV (NEP) Examination, March, -2024 **Object Oriented Programming using C++** Sub. Code: 91178

Day and Date : Monday, 08-04-2024 Time : 10:30 a.m. to 01:30 p.m. <i>Instructions:</i> 1) Q. 1 and (2) Attempt a	Total Marks:80 Q. 8 are <i>compulsory</i> <i>ony three</i> from Q. 2 <i>to</i> Q. 7
Q.1. Select the correct alternative and re	write the sentence. [12]
1. C++ language was developed by	
a) Dennis Rechard	b) Dennis M. Ritchie
c) Bjarne Stroustrup	d) Anders Hejlsberg
2. Which of the following refers to using the e	xisting code instead of rewriting it?
a) Inheritance	b) Encapsulation
c) Abstraction	d) Both A and B
3. Which of the following refers to the wrap single individual entity?	ping of data and its functionality into a
a) Modularity	b) Abstraction
c) Encapsulation	d) None of the above
4. A constructor that does not have any parameters constructor.	eters is called
a) custom	b) dynamic
c) static	d) default
5 is the OOP feature and the data it manipulates, and keep both s	nd mechanism that binds together code afe from outside world.
a) Data Binding	b) Data Encapsulation
c) Data Storing	d) Data Abstraction
6. By default, members of the class are	in nature.
a) protected	b) private

c) public

7. Choose the correct option which is mandate	-	
a) return_type c) parameters	b) function_name d) Both (a) and (b)	
8. What is the number of parameters that a default constructor requires?		
a) 0	b) 1	
c) 2	d) 3	
9. What is an object in C++?		
a) It is function of class	b) It is instance of class	
c) It is data type of class	d) It is part of the syntax of class	
10. 'cin' is an		
a) class	b) object	
c) package	d) namespace	
11. Which of the following is used for implementing the late binding?		
a) Operator Functions	b) Constant Functions	
c) Virtual Functions	d) Both (a) and (b)	
 12. Why inline functions are useful? a) Functions are large and contain several nested loops b) Usually, it is small, and we want to avoid the function calls c) The function has several static variables d) All of the above 		
Q.2. Define polymorphism? Explain late binding in detail with suitable example. [16]		
Q.3. Explain in detail static class members.		
Q.4. Define inheritance. Explain single, multiple and multilevel inheritance		
with suitable example.		
Q.5. Explain constructor in detail. Explain default, parameterized and copy		
constructor with suitable example.		
Q.6. Explain various object oriented programming concepts.		
Q.7. How parameters are passed to function in C++?		
Q.8. Write Short Notes on following. (ANY FOUR)		
Q.8. Write Short Notes on following. (ANY FOUR)[20]1. What is class? Explain it with suitable example.		
2. Features of OOP's.		
 Pure virtual function Differentiate between POP and OOP 		
 Differentiate between POP and OOP inline function 		
6. friend function		