

HCV-003-004302

Seat No.

B. Sc. (I.T.) (Sem. III) (CBCS) Examination

October / November - 2017

CS - 14 : Object Oriented Programming with C++

Faculty Code: 003

Subject Code: 004302

Time: Hours] [Total Marks: 70

SECTION - I

				1011	•	
1	Atte	mpt	following MCQ :			20
	(1)	The	wrapping up of data	a and	functions into a single unit	
		is k	nown as			
		(A)	Data Abstraction			
		(B)	Inheritance			
		(C)	Data Hiding			
		(D)	Encapsulation			
	(2)	Whi	ich of the following	is kn	own as insertion operator?	
		(A)	>>	(B)	<<	
		(C)	::	(D)	^	
	(3)	int	x=94; int &y=x; y=	=y+5;	cout< <x;< th=""><th></th></x;<>	
		Wha	at will be the outp	ut of	above code?	
		(A)	94	(B)	95	
		(C)	99	(D)	None of these	
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(4)	The	multiple use of <<	in	one statement is called					
	(A)	Polymorphism	(B)	Reusability					
	(C)	Cascading	(D)	Inheritance					
(5)	The concept of using one operator for different purpose								
	is kr	known as							
	(A)	Operator overloading							
	(B)	Operator overriding							
	(C)	Function overloading							
	(D)	None of these							
(6)	The member functions defined inside the class are by default treated as								
	(A)	static	(B)	inline					
	(C)	const	(D)	private					
(7)		is a member	func	tion whose name is same					
	as th	ne class name.							
	(A)	Member function							
	(B)	Friend function							
	(C)	Constructor							
	(D)	All of these							
(8)	operator cannot be overloaded.								
	(A)	sizeof	(B)	+					
	(C)	>	(D)	<					
(9)	What is default visibility mode for members of classes in C++?								
	(A)	protected	(B)	public					
	(C)	private	(D)	All of these					

(10)	0) The process of deriving a class from another derived class is known as							
	(A) Single inheritance							
	(B) Multiple inheritance							
	Multilevel inheritance							
	(D) None of these							
(11)	Which of the following operator used for dynamic nemory allocation?							
	(A) delete (B) new							
	(C) allocate (D) insert							
(12)	Operator overloading is also known as							
	(A) Compile time polymorphism							
	(B) Run time polymorphism							
	(C) Both (A) and (B)							
	D) None of these							
(13)	How many copies of static members the objects of the class share?							
	(A) Only one							
	(B) Depends on number of objects							
(C) Depends on size of the object								
	(D) None of these							
(14)	is not a member of a class but can have an access all the members of a class.							
	(A) Static function (B) Ordinary function							
	(C) Friend function (D) All of these							

cons	tructor is called?				
(A)	Default	(B)	Parameterized		
(C)	Copy	(D)	All of these		
When a base class is derived privately, all the public members of a base class become in the derived class.					
(A)	Private	(B)	Public		
(C)	Protected	(D)	Can't say		
	is a function	decla	red in base class that has		
no o	lefinition relative to	o the	base class'.		
(A)	Virtual function				
(D)	Abatract function				
(B)	Abstract function				
, ,	Pure virtual funct	ion			
(C)		ion			
(C) (D)	Pure virtual funct		for istream and ostream.		
(C) (D)	Pure virtual funct		for istream and ostream.		
(C) (D) ——————————————————————————————————	Pure virtual funct All of these is the base of	class	cin		
(C) (D) (A) (C)	Pure virtual funct All of these is the base of	class (B) (D)	cin Both (B) and (C)		
(C) (D) (A) (C)	Pure virtual funct All of these is the base of the cout	class (B) (D)	cin Both (B) and (C)		
(C) (D) (A) (C) Whi	Pure virtual funct All of these is the base of ios cout ch block generates	class (B) (D) the e	cin Both (B) and (C) exception? catch block		
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	(A) (C) When men deriv (A) (C)	When a base class is demembers of a base class derived class. (A) Private (C) Protected is a function no definition relative to the content of the	(C) Copy (D) When a base class is derived members of a base class become derived class. (A) Private (B) (C) Protected (D) is a function declar no definition relative to the		

SECTION - II

2	(a)	Atte	empt the following: (any three)	6
		(1)	What is constructor?	
		(2)	Explain scope resolution operator.	
		(3)	What is pure virtual function?	
		(4)	Define term : Class and Object	
		(5)	Explain pricision() and fill() with example.	
		(6)	Explain cout with insertion operator.	
	(b)	Atte	empt the following: (any three)	9
		(1)	Explain private member function of a class.	
		(2)	Explain Basic structure of C++ program	
		(3)	Explain parameterized constructor with	
			example.	
		(4)	Explain inline function with example.	
		(5)	Explain this pointer in brief	
		(6)	Explain default argument in function with	
			example.	
	(c)	Atte	empt the following: (any two)	10
		(1)	Explain object as function argument with	
			appropriate example.	
		(2)	Write a CPP program to overload unary minus operator using friend function.	

- (3) Explain Basic concept of OOP
- (4) Explain function overloading with suitable example.
- (5) Explain divide by zero exception with example.
- **3** (a) Attempt the following: (any **three**)

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- (1) Explain cin with extraction operator.
- (2) Describe the syntax of the single inheritance in C++.
- (3) What is abstract base class?
- (4) Give any for rules for operator overloading.
- (5) Explain nested if with example.
- (6) Explain pointer to object.
- (b) Attempt the following: (any three)

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- (1) What is manipulator? Explain setw and endl with example.
- (2) What is reference variable? Explain with example.
- (3) Explain access specifier in C++.
- (4) Explain constant argument with example.
- (5) Explain class with defining member function.
- (6) Explain different uses of scope resolution operator.

(c) Attempt the following (any two)

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- (1) What is array of object? Explain with example.
- (2) What is exception handling? Explain try and catch with suitable example.
- (3) Explain friend function with example.
- (4) Create a class time that has hours, minutes as data members, create default constructor to get time and one member function puttime() to display time. Write an appropriate main() function for it.
- (5) Write a program to create a class EMP having id, name. Derive a class SALARY from EMP to store basic, hra, da, ta & gross salary. Input and print EMP and SALARY data for one employee.