

BAK-003-003309 Seat No. _____

B. C. A. (CBCS) (Sem. III) Examination

October / November - 2015

CS-14: C++ And Object Oriented Programming

Faculty Code: 003

Subject Code: 003309

Tim	e : 2	2 <u>1</u> H	ours]			[Total Marks :	70
1	Atte	empt	the following MCQ:				20
	(1)	The	The preprocessor directive #include is requ			uired if	
		(A)	Console input and ou	ıtput	used		
		(B)	Only Console input i	s use	ed		
		(C)	Only Console output	is u	sed		
		(D)	None				
	(2)	C++	was originally develo	ped	by		
		(A)	Bjarne Stroustrup	(B)	Donald K	nuth	
		(C)	Nicolas Wirth	(D)	Ken Thor	npson	
	(3)	(3) The standard C++ comment					
		(A)	1	(B)	//		
		(C)	/* and */	(D)	None		

(4)	rne	operator < 1s can	ea	
	(A)	an insertion opera	tor (B)	put to operator
	(C)	either (A) or (B)	(D)	None
(5)	A co	onstructor is called	whenev	er
	(A)	Object is declared	(B)	Object is used
	(C)	Class is declared	(D)	Class is used
(6)		ch of the following for programs?	unction	that must contain in all
	(A)	start ()	(B)	main ()
	(C)	system ()	(D)	program ()
(7)		nt value will return successful completion		operating system upon program?
	(A)	-1	(B)	0
	(C)	1	(D)	will not return a value
(8)		ch one of the follov pare two variables?	ving is	the correct operator to
	(A)	;= ¹	(B)	==
	(C) <u>{</u>	=	(D)	equal to
(9)		ch one of the following: ++ programs?	ng is no	t a correct variable type
	(A)	float.	(B)	int
	(C)	real	(D)	double
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(10)	The	directives for the p	preproce	ssors begin with
	(A)	Number Sign (#)	*	
	(B)	Two Slashes (//)		
	(C)	Ampersand symbol	l (&)	
	(D)	Less than symbol	(<)	
(11)		ch one of the follow al and?	ing is tl	he Boolean operator for
	(A)	&	(B)	1
	(C)	&&	(D)	&
(12)	Cons	structors are used t	to	
	(A)	initialize the progr	ram	
	(B)	construct the data	membe	rs
	(C)	initialize the object	ts	
3	(D)	None		
(13)	In C	++ a function cont	ained w	ithin a class is called
	(A)	an operator	(B)	a member function
	(C)	a class function	(D)	a method
(14)	The	fields in a class of	a C++ 1	program are by default
	(A)	protected	(B)	public
	(C)	private	(D)	global
(15)	Whic	ch of the following	is not a	bitwise operator?
	(A)	_	(B)	_
	(C)	~	(D)	٨
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(16)	C++	supports						
	(A)	Multiple inheritance						
	(B)	Pointer to functions						
	(C)	Recursion						
	(D)	All of the above						
(17)	525	++, the string literal "Cemory.	++" o	ccupies exactly				
	(A)	1 byte	(B)	2 bytes				
	(C)	3 bytes	(D)	4 bytes				
(18)	8) The default copy constructor performs							
	(A)	Deep copy	(B)	Shallow copy				
	(C)	Hard copy	(D)	Soft copy				
(19)		The implicit argument passed to a member function of C++ class is called						
	(A)	"implicit" pointer	(B)	"sender" object				
	(C)	"this" pointer	(D)	"me" object				
(20)	What is the result of the statement? : $x = 10$; $y = ++ x$;							
	(A)	x = 11, y = 11	(B)	x = 11, y = 10				
	(C)	x = 10, y = 11	(D)	an error				

2	(a)	Defi	ine Followings: (any three)	6
le.		(1)	Identifier	
		(2)	Keywords	
		(3)	Variable	
		(4)	Const member function	
		(5)	Dynamic Binding	
		(6)	Manipulators	
	(b)	Atte	empt the following: (any three)	9
		(1)	Explain Constructor and Destructor.	
		(2)	Explain Operator Overloading.	
		(3)	Explain Storage Classes.	
		(4)	Call by Value VS Call by Reference.	
		(5)	Explain Function Overloading with suitable	
			example.	
		(6)		
	7.5		suitable example.	
	(c)	Atte	empt the following: (any two)	10
		(1)	Write short note on Polymorphism.	
		(2)	Write short note on Multiple, Multi-Level and	
			Hierarchical Inheritance.	
		(3)	Write short note on Virtual Class and Composition.	

	(4)	WAP that demonstrate Copy Constructor and Constructor overloading.	
	(5)	W.A.P. that accept string from user and display in reverse order without any string function.	
(a)	Defi	ine Followings: (any three)	6
	(1)	seekg()	
	(2)	seekp()	
	(3)	tellg()	
	(4)	tellp()	
	(5)	RTTI	
	(6)	STL	
(b)	Atte	empt the following: (any three)	9
	(1)	Write short note on UNFORMATTED console I/0 operations.	
	(2)	Write short note on FORMATTED console I/0 operations.	
	(3)	Differentiate Inheritance V/S Containership in C++	
	(4)	Write short note on "this" Pointer in C++	
	(5)	Write short note on File modes in C++	
	(6)	Write short note on File Pointers in C++	
(c)	Atte	empt the following: (any two)	10

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Write short note on MANIPULATORS in C++

Write short note on Class Templates in C++

- (3) Write short note on Function Templates in C++
- (4) W.A.P. to overload binary "+" operator using friend function.
- (5) W.A.P. to display following pattern.