BCA

THIRD SEMESTER (SPECIAL REPEAT) OBJECT ORIENTED PROGRAMMING WITH C++ BCA-301

Du	ration: 3 hrs.	101 U	bjective & Descriptive)	Full Marks: 70
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Tin	(<u>PART-A : C</u>	יוטכ	ecuve j	Marks: 20
Ch	oose the correct answer from the follow	ving	g:	1X20=20
1.	By default how the value are passed in c++ a. call by value c. call by pointer	b.	call by reference	
2.	What is the size of empty class? a. 0 c. 2	b.	1	
3.	What is abstract class? a. A class with abstract keyword c. A class with atleast one pure virtual function		A class with no function Empty Class	ons in it
4.	Which type is best suited to represent the lea. Integer c. Character	b.	al values? Boolen All of the mentioned	
5.	How many class objects can be created of a a. 1 c. No limit	b.		
6.	Function overloading is also similar to white. a. Operator overloading c. Destructor Overloading	b.	f the following? Constructor overloadin None of the mentioned	
7.	Where does the return statement returns the a. main function c. same function	b.	ecution of the program? caller function block function	
8.	When the inheritance is private, the private derived class (in C++).			in the
	a. Inaccessible c. Protected		Accessible Public	
9.	Which of the following cannot be passed to a. One c. Array	b.	function in C++? Structure Header file	
10	C++ actually supports following two comp			ems:
10.	 a. One is defined by C++ and other not defined by 	b.	One defined by C and C++	one specific to
	c. Both are specific to C++	d.	Both of them are impre	ovement of C

11.	Important advantages of using New and De a. Allocation of memory		operator in C++ is: Frees the memory previously allocated				
	c. Initialization of memory easily		Allocation of memory and frees the memory previously allocated				
12.	 The programming languages C and C++ are a. C and C++ allows functions for which parameters are not type checked c. C and C++ allows functions for which parameters are not type checked and also the union types in these languages are not type checked. 	b.	t strongly typed languages because: C and C++ allows functions for which parameters are type checked Union types in these languages are no type checked				
13.	A copy constructor is invoked when:a. A function returns a valuec. A function returns by reference		An argument is passed by value None of these				
14.	4. Runtime polymorphism can be achieved by:						
	 Accessing virtual function through the pointer of base class 	b.	Accessing the virtual function through the object				
	c. The derived class	d.	None of these				
15.	Enumeration is a process:						
	a. Declaring a set numbers		Sorting a list of strings				
	 Assigning a list of legal values possible for a variable 	d.	Sequencing a list of operators				
16.	Which of the following is the correct syntax of including a user defined header files in C++?						
	a. #include <userdefined.h></userdefined.h>	b.	#include <userdefined></userdefined>				
	c. #include "userdefined"	d.	#include [userdefined]				
17. If a data item is declared as a protected access specifier then it can be accessed:							
	a. Anywhere in the program		By the base and derived classes				
	c. Only by the base class	d.	Only by the derived class				
18.	The friend function are used in situation wi						
	a. We want to have access to unrelated class	b.	Dynamic binding is required				
	c. Exchange of data between classes to take place	d.	None of these				
19. A is special method used to initialize the instance variable of a							
	a. Member function		Destructor				
	c. Constructor	d.	Virtual function				
20. The associability of which following operator is left to right in C++?							
	a. Unary operator	b.	Logical Not				
	c. Array access operator	d.	Address of				

(PART-B : Descriptive)

Time: 2 hrs. 40 min.							
	[Answer question no.1 & any four (4) from the rest]						
1.	Write about the features of Object Oriented Programming.	10					
2.	What is abstract class? Write a program having 'Student' as an abstract base class and create derived classes such as Science, Arts, Commerce, Engineering, Medical etc. from the student class. Create their objects and process them.	2+8=10					
3.	'C++ programming concept is better than C programming concept'- Explain it.	10					
4.	What is constructor and destructor? Write the characteristics of constructor and destructor.	4+6=10					
5.	Explain the advantages of pointer use in programming. Under which circumstances use of pointer is indispensable? How can pointer be useful in runtime memory management?	10					
6.	a) What is operator overloading? Write a program to decrement a value using operator overloading.b) What is polymorphism?	2+5+3=10					
7.	a) Define inline function with example.b) Define friend function and friend class.	5+5=10					
8.	Mr. X is a business man. He started his business with stationary items. Gradually he expanded his business with grocery items and cloths. As programmer how can you represent his business model? What are the features that helps you to represent his model.	10					

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