BE-260

100184

III Semester B.Tech.(CSE/ISE) Examination, December - 2019/January - 2020

(CBCS Scheme)

Computer Science and Engineering 18CIPC306: OBJECT ORIENTED PROGRAMMING

Tim	ne:3	Hour	8				Max	. Marks : 10	
Ins	truct	lons		Q.No. 2 or Q.1		d Q.No. 9 are c o O.No. 4 or Q.No.			
1.	(i)	Wha	at does memor	ts mean ?		15x1=1			
		(a)	Actual creati	ion and memor	ry alloc	ation for object	member	8	
		(b)	Creation of	member functi	ons				
		(c)	Actual creati	ion and data d	leclarati	on for object n	nembers		
		(d) Creation of data members for a class							
	(ii)	Which feature of OOP indicates code reusability ?							
		(a)	Encapsulation	on	(b)	Inheritance			
		(c)	Abstraction		(d)	Polymorphism	1		
	(iii)	ii) If same message is passed to objects of several different classes and of those can respond in a different way, what is this feature called							
		(a)	Inheritance		(b)	Overloading			
		(c)	Polymorphis	m	(d)	Overriding			
	(iv)					ising other men			
		(a)	Private (b)	Protected	(c)	Public	(d) De	efault	
	(v)		many classes	s should a proj	gram co	ntain to implen	nent the	multiple	
		1-1	Dunath 2 (h)	At least 1	101	At lengt 2	(A) A+	Innet O	



(vi)	Virt	tual functions are mainly used to achieve
	(a)	Compile time polymorphism
	(b)	Interpreter polymorphism
	(c)	Runtime polymorphism
	(d)	Static polymorphism
(vii)	C++	was originally developed by
	(a)	Clocksin and Mellish (b) Donald E. Knuth
	(c)	Sir Richard Hadlee (d) Bjame Stroustrup
(viii	Whi	ch of the following is used for comments in C++?
	(a)	// comment
	(b)	/* comment */
	(c)	both // comment or /* comment */
	(d)	// comment */
(ix)	Ide	ntify the correct statement.
	(a)	Namespace is used to group class, objects and function
	(b)	Namespace is used to mark the beginning of the program
	(c)	A namespace is used to separate the class, objects
	(d)	Namespace is used to mark the beginning and end of
		the program
(x)		ich of the following is the correct difference between cit scanf()?
	(a)	Both are the same
	(b)	cin is used for printing whereas scanf() is used for reading input
	(c)	cin is a stream object whereas scanf() is a function
	(d)	scanf() is a stream object whereas cin is a function
(xi)	Whi	ich of the following operator(s) cannot be overloaded?
	(a)	(Member Access or Dot Operator)
	(b)	?: (Ternary or Conditional Operator)
	(c)	:: (Scope Resolution Operator)
	(d)	All of the above
(xii)	Whi	ch of these keywords is not a part of exception handling
	(0)	try (b) finally (c) thrown (d) catch



	(xiii)	What is	multithread program	ming ?					
					t processes run simultaneously.				
	(b) It's a process in which two or more parts of same process simultaneously.								
		(c) It's a process in which many different process are able to access same information.							
(d) It's a process in which a single process can access inform from many sources.									
	(xiv)	Which o	f these functions is ca	alled to dis	splay the output of an applet ?				
			play()	(b)	paint()				
		(c) disp	play Applet()	(d)	Print Applet()				
	(xv)	Which impleme	of these can be us	ed to ful	ly abstract a class from its				
		(a) Obj	ects	(b)	Packages				
		(c) Inte	erfaces	(d)	None of the mentioned				
2.	(a)	Discuss oriented	Discuss how object oriented programming is different from procedural oriented programming.						
	(b)	Explain with an	how do you define a : example.	member fu	anction outside the class in C++	6			
	(c)	What is	What is a friend function ? What are its special characteristics ?						
				OR					
3.	(a)	What are classes? Explain how to declare a class with example.							
	(b)	Discuss the use of default arguments with an example.							
	(c)	Explain with an example how do you use objects as function arguments.							
4.	(a)	Illustrate the use of dynamic constructors with an example.							
	(b)	Discuss the need for protected members in a class with an example.							
	(c)	Give the syntax for overloading an operator and explain the process of overloading with an example.							
				OR					
5.	(a)	Develop a C++ program to demonstrate operator overloading using friend function and discuss how it differs when friend function is not used.							
	(b)	Explain	hybrid inheritance wi	th an exa	mple.	7			

6.	(a)	What are virtual functions? How to call virtual function through a Base Class Reference?	5
	(b)	Explain the various I/O class functions available for performing formatted I/O in C++ .	8
	(c)	Write a note on generic functions.	4
7.	(a)	Explain how do you override methods in java ?	5
	(b)	Discuss the need for interfaces in java and also explain how interfaces are implemented?	7
	(c)	What are exceptions and how do you handle exceptions in java?	5
8.	(a)	With an example explain the general structure of a java program.	
	(b)	Discuss how packages provide access protection with the use of various access modifiers?	6
	(c)	Explain how we can throw our own exceptions with an example?	6
9.	(a)	With the neat diagram explain the life cycle of the thread.	7
	(b)	Explain the use of yield() and sleep() methods of a thread with	
		an example.	5
	(c)	What are applets how do they differ from applications?	5