B.Tech. - VIEP - COMPUTER SCIENCE AND **ENGINEERING (BTCSVI)**

00605

Term-End Examination June, 2019

BICS-003: OBJECT ORIENTED PROGRAMMING

Tir	ne : 3 h	ours Maximum Marks : 70	
Note: Attempt any seven questions. All questions con equal marks.			
1.	(a)	What is an object and a class? Explain the key concept of OOPs.	
	(b)	How are data and function organized in an object oriented program?	
2.	(a)	Differentiate between C and C++.	
	(b)	Explain the concept of dynamic memory allocation in C++.	
3.		e a C++ program to swap the value of three bles without using the temporary variable.	
4.	(a)	What is a constructor ? Explain the characteristics of a constructor.	
	(b)	What is copy constructor? Explain with an example.	
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5.		te a class Matrix and overload +, - operator erform addition and subtraction of two	
	matr	ices.	10
6.	Disti	nguish between the following:	5+5
	(a)	Data abstraction and Data encapsulation	
	(b)	Dynamic binding and Message passing	
7.	strea	ain the concept of stream class. How are m classes classified? Also discuss stream pulators.	10
8.	(a)	What do you mean by exception handling? Describe the role of keywords try, catch, and throw.	5
	(b)	Explain different types of inheritance.	5
9.	(a)	What is dynamic initialization ? Is it possible in C ?	5
	(b)	What are inline functions? Explain with the help of suitable example.	5
10.	Write follov		=10
	(a)	Virtual Function	
	(b)	Access Specifier in C++	
	(c)	Stack Unwinding	