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BICS-003

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

Term-End Examination

December, 2017

00064

BICS-003 : OBJECT ORIENTED PROGRAMMING

Time : 3 hours

Maximum Marks: 70

Note: Attempt any **seven** questions. All questions carry equal marks.

- **1.** Explain each of the following terms with the help of suitable example :
 - (a) Inheritance
 - (b) Abstraction and Encapsulation
 - (c) Polymorphism
 - (d) Virtual Function
 - (e) Constructor
- 2. (a) Write a C++ program to overload the decrement operator with prefix and postfix norms.
 - (b) Explain any two types of inheritance supported in C++ with the help of suitable examples.

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P.T.O.

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3.	(a)	Illustrate about how exceptions are handled using multiple catch handlers.	5
	(b)	Write a class template to represent a queue of any possible data type.	5
4.		e a C++ program to swap the value of three bles without using the temporary variable.	10
5.	\mathbf{Expl}	ain any <i>two</i> of the following :	10
	(a)	Random Access File	
	(b)	Unformatted Input/Output with Read and Write operation	
	(c)	Sequential Access File	
6.	(a)	When do you declare a member of a class static ? Justify your answer with a program.	5
	(b)	How are friend functions and static functions invoked ? Explain with the help of suitable example.	5
7.	data	wribe the different mechanisms for accessing members and member functions in class the help of suitable example.	10
8.	(a)	What is dynamic initialization ? Is it possible in C ?	5
	(b)	What are inline functions ? Explain with the help of suitable example.	5