

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

00214

**Term-End Examination**

**December, 2016**

**BICS-003 : OBJECT ORIENTED PROGRAMMING**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note : Attempt any seven questions.**

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1. (a) What is object oriented programming ? How is it different from procedure oriented programming ? 5  
(b) What do you understand by object identity ? Explain with examples. 5
2. (a) Write the statement for concatenation of two strings using cout.write( ) statement. 5  
(b) Define Polymorphism with a suitable example. 5
3. Explain the evaluation of C++. Also write the advantage of object oriented programming languages. 10
4. (a) What is dynamic initialization ? Is it possible in C ? 5  
(b) What do you mean by inheritance ? Describe various types of inheritances with examples. 5

5. (a) What is object oriented modelling ? What is its importance ? 5
- (b) What are the concepts of data hiding ? What are the advantages of its applications ? 5
6. (a) What is a virtual function ? What are the uses of virtual functions ? 5
- (b) What are the 'r' values and 'l' values in an expression ? Explain with examples. 5
7. Explain any *two* of the following : 5+5=10
- (a) Sequential Access File
- (b) Random Access File
- (c) Classes of Objects
8. Write a program to declare three classes  $S_1$ ,  $S_2$  and  $S_3$ . The classes have a private data member variable of character data type. Read strings for the classes of  $S_1$  and  $S_2$ . Concatenate the strings, read and assign it to the data member variables of class  $S_3$ . 10
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