

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

00816 **Term-End Examination**
June, 2016

BICS-003 : OBJECT ORIENTED PROGRAMMING

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions.

1. (a) What do you understand by object identity ?
Explain with an example. 5
- (b) What is operator overloading ? Explain it
with a suitable example. 5
2. (a) How are friend functions and static functions
invoked ? Explain with an example. 5
- (b) Write a program to overload + binary
operator. 5
3. (a) What is object oriented programming ?
How is it different from procedure oriented
programming ? 5
- (b) What is the role of iostream.h and math.h
header files ? Explain in detail. 5

4. (a) What is the difference between calling methods for constructor and destructor ? 5
- (b) Write a program to exchange values between two classes. (Use Friend Function) 5
5. (a) What is virtual function ? What is the use of virtual function ? 5
- (b) Write a program to declare a pointer to a member and display the content of the variable. 5
6. (a) What is dynamic initialization ? Is it possible in C ? 5
- (b) What are inline functions ? Discuss their advantages and disadvantages. 5
7. Explain each of the following terms with an example : 10
- (a) Encapsulation
- (b) Information hiding
- (c) Polymorphism
- (d) Exception handling
8. Explain any *two* of the following : 5+5=10
- (a) Sequential Access File
- (b) Unexpected Exception
- (c) Random Access File
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