

Roll No.

Total No. of Pages : 2

BT-4/M11

8403

Object Oriented Programming Using C++

Paper : IT-252E, Option : I

Time : Three Hours]

[Maximum Marks : 100

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each unit.

UNIT—I

- 1. (a) What are features of C++ which makes it different from C? 10
- (b) What are standard libraries available with C++? 10
- 2. (a) What are the concept of OOPs? 10
- (b) Explain Encapsulation with example. 10

UNIT—II

- 3. (a) What do you understand by operator overloaded? List the operators which cannot be overloaded. 8
- (b) What are the rules for overloading operators? 7
- (c) List the keywords that cannot be overloaded. 5
- 4. (a) What is public, protected and private inheritance? Explain with example. 10
- (b) Compare composition to inheritance. 10

UNIT—III

- 5. (a) Explain with example static and dynamic binding. 10
- (b) Where do we use virtual functions? Give its applications. 10
- 6. (a) Explain sequential and random file operations. 10
- (b) Describe file manipulators with their syntaxes. 10

UNIT—IV

- 7. (a) What is class template and non-type parameters? 7
- (b) How rethrowing an exception is being done? 6
- (c) What are exception handlers? 7
- 8. (a) What is difference between "Error" and "Exception"? Explain with example. 8
- (b) Explain guidelines for exception handling. 7
- (c) Write note on function templates. 5