

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

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| 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

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| 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 |