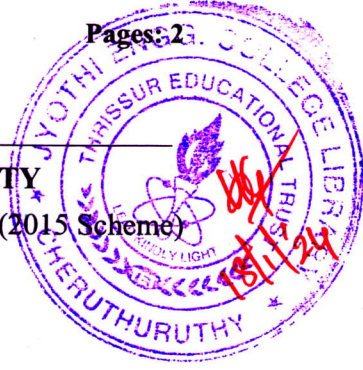


Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S6 (S, FE) / S6 (PT) (S, FE) Examination January 2024 (2015 Scheme)

**Course Code: EC312****Course Name: Object Oriented Programming**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer any two full questions, each carries 15 marks*

Marks

- 1 a) What is friend function? Explain its significance using suitable example program. (10)
- b) Explain the need of forward declaration of classes. (5)
- 2 a) What do you mean by dynamic binding? How is it useful in OOP? (7.5)
- b) Write a C++ program to input subject marks and print it using class. (7.5)
- 3 a) Find errors in the following C++ statements: (7)
 1. `cout << "x=" x;`
 2. `/*Subtraction*/ z = x - y;`
 3. `cin >> x; >> y;`
 4. `cout << \n 'Name:' << name;`
 5. `cout << "Enter value:"; cin >> x;`
- b) Identify the type of constructor which initialises an object from another of same class. Also explain its format with an example C++ program. (8)

PART B*Answer any two full questions, each carries 15 marks*

- 4 a) Explain a situation where the concept, pointer to a function is used. (7)
- b) How can we achieve polymorphism at compile time and run time? (8)
- 5 a) What is the use of concept polymorphism in programming? How it is implemented using overloaded functions and operators? (7.5)
- b) Develop a simple application program to illustrate use of multithreads. (7.5)
- 6 a) Explain Java tokens. (7)
- b) Illustrate the overriding method in Java using an example program. (8)

PART C

Answer any two full questions, each carries 20 marks

- 7 a) List features of Android operating system which made wide acceptance in the technological field. Also explain basic building blocks. (10)
- b) Draw four layered architectural diagram of Android. Explain each section in detail. (10)
- 8 a) How to create your own content provider in Android? (10)
- b) Explain uses-permission and uses-sdk. (10)
- 9 a) List different types of Android layouts and explain attributes of each. (10)
- b) How to access the built in SQLite database? Explain features of SQLite in android. (10)
