**B. Tech Semester-III (CE/IT)**

**2CEIT302: Object Oriented Programming**

**Assignment**

1. Explain the basic principles of OOP: **Encapsulation, Inheritance and Polymorphism**.
2. Discuss the uses of super with suitable example. Write a difference between this keyword and super.
3. Explain abstract class with suitable example. Can we create the object of abstract class?
4. Differentiate between String and String Buffer class.
5. What is an Interface? What are the uses of Interface? What are the differences and similarities between interface and Abstract class?
6. Differentiate between throw and throws keywords using proper example. Differentiate between checked exception and unchecked exception.
7. Explain lifecycle of thread.
8. Differentiate between multitasking and multithreading. Write a java program for generating two threads, one for generating even number and one for generating odd number.
9. What is Package? Explain all steps how can we create,compile and run user defined package.
10. What is construtor?Explain types of Constructor with an example.
11. Expalin runtime and compile time exception.
12. Explain dynamic method dispatch with suitable example.