

**Third Semester FYUGP Degree (Reg) Examination November
2025**

**KU3DSCCAP202 - OBJECT ORIENTED PROGRAMMING
THROUGH JAVA**

2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. What is object in Java? Give an example.
2. What are Command Line Arguments ?
3. What is the role of Thread.sleep() method?
4. Expand AWT and mention any two AWT component examples.
5. What interface does ArrayList implement in Java?
6. Write a program to find the area of a circle.
7. What are the differences between method overloading and overriding in java?
8. What is the parent class for all exceptions in java.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Explain the use of ArrayList and Vector in Java with suitable examples.
10. Explain the structure of the Java Collection Framework with examples.
11. Develop a Java program that checks whether a given string is a palindrome or not.
12. Describe method overriding with example
13. Explain exception hierarchy with a neat diagram.
14. What are the advantages of user defined exception?

Section C

Answer any 1 questions. Each carry 14 marks.

15. Discuss loop control structures. Give examples.
16. Discuss the two methods to implement thread synchronization in Java.