

ANURAG Engineering College

(An Autonomous Institution)

II B.Tech I Semester Regular/Supplementary Examinations, December – 2024

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(COMPUTER SCIENCE & ENGINEERING)

Time: 3 Hours**Max. Marks: 60****Section – A (Short Answer type questions)****(10 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. List the differences between type conversion and casting.	CO1	L1	1M
2. What is the difference between nested classes and inner classes?	CO1	L1	1M
3. What are abstract classes?	CO2	L1	1M
4. What is polymorphism?	CO2	L1	1M
5. What is the purpose of the throw keyword?	CO3	L1	1M
6. What is an enumeration in Java?	CO3	L1	1M
7. What is an event listener?	CO4	L1	1M
8. What is the purpose of the CardLayout manager?	CO4	L1	1M
9. Why does an Applet not need a main() method? Explain.	CO5	L1	1M
10. What is the purpose of a JApplet?	CO5	L1	1M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Explain the fundamental principles of Object-Oriented Programming (OOP).	CO1	L3	10M
OR			
B) Explain method overriding and its rules.	CO1	L3	10M
12. A) What is a package in Java? How do you create and use packages?	CO2	L2	10M
OR			
B) What are abstract classes and interfaces? How do they differ?	CO2	L2	10M
13. A) Draw the thread life cycle diagram.	CO3	L3	10M
OR			
B) What are the advantages and disadvantages of autoboxing?	CO3	L3	10M
14. A) Draw a diagram to illustrate the AWT class hierarchy.	CO4	L3	10M
OR			
B) Discuss the commonly used event listener interfaces in AWT, such as ActionListener, Mouse Listener, Key Listener, and Item Listener.	CO4	L3	10M
15. A) Illustrate the following Swing components with example programs: i) JLabel ii) JButton iii) JTextField iv) JTextArea	CO5	L3	10M
OR			
B) What are the key differences between AWT and Swing components?	CO5	L2	10M