

Govt. College For Women Parade, Jammu

Title: - Java Programming
Duration: 03 hours

Course No: UBCATS-501
Max. Marks: 80

Section-A (5X3=15)

All questions are compulsory. Each question carries 3 marks.

- Q 1. Define JVM.
- Q 2. Define Garbage Collection.
- Q 3. What is Exception Handling?
- Q 4. What is Applet.
- Q 5. Define AWT.

Section-B (5X7=35)

All questions are compulsory. Each question carries 7 marks.

- Q 6. Describe various primitive data types available in Java.
- Q 7. Explain Method Overloading with example.
- Q 8. Describe the complete life-cycle of a thread in Java.
- Q 9. Write a console program in Java to generate Fibonacci series.
- Q 10. Describe the usability of **ActionListener** Interface.

Section-C (2x15=30)

Attempt any 2 questions. Each question carries 15 marks.

- Q 11. A) Explain various features of object oriented programming language. 8
B) Write a program in Java to find the addition of two 3x3 arrays. 7
- Q 12. Define Interface. Illustrate with example, how interface is used to achieve multiple inheritance in Java. (3,12)
- Q 13. Illustrate the flow control of instructions in try, catch, finally blocks in Java. 15
- Q 14. Distinguish between **String** and **StringBuffer** Classes with example. 15
- Q 15. Write a Java program to implement any five AWT Controls. 15