Roll No.						

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc. (IT) (Sem.-4) JAVA TECHNOLOGIES Subject Code : PGCA-1939 M.Code : 79561 Date of Examination : 17-12-22

Time: 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION B & C have FOUR questions each.
- 3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
- 4. Select atleast TWO questions from SECTION B & C.

SECTION-A

1. Write briefly :

- a. Why is Java said to be platform independent?
- b. Write a Java program to use Bit-wise operators.
- c. Can we have an empty catch block? Justify.
- d. Differentiate between = and = = operators.
- e. What are static class members?
- f. Give the difference between checked and unchecked exceptions.
- g. How can you exit from a nested loop using break statement?
- h. Explain final keyword.
- i. What is event delegation model?
- j. Give the differences between Abstract class and Interface.

SECTION-B

- 2. Explain in detail different data types in Java. Also explain automatic type conversion and type casting.
- 3. Explain the concept of class and object in Java? What is a constructor? What are its properties? Write a program to show constructor overloading in Java.
- 4. Explain with examples the different looping statements available in Java. Explain labeled break statement with the help of an example.
- 5. What is Inheritance? Explain with example how to inherit a class in Java? What is Method Overriding? Explain with example.

SECTION-C

- 6. What is an Exception? What is exception handling? How do you handle exceptions in Java? Write a program to create and throw your own exception.
- 7. Explain the different thread states. How can you synchronize thread access to a shared resource? Explain with the help of an example.
- 8. Design an applet which display three equal sized rectangles one below the other and fill them with orange, white and green color respectively.
- 9. a) Write a java program to implement Key events.
 - b) Explain about the AWT Menu design.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.