

Roll No.

Total No. of Pages : 02

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M.Sc. (IT) (Sem.-4)  
**JAVA TECHNOLOGIES**  
Subject Code : PGCA-1939  
M.Code : 79561  
Date of Examination : 05-07-22

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. Write a Java program to read and display the array elements in order.
- b. What are the rules of naming the identifiers in Java?
- c. Explain any two relational operators in Java with example.
- d. Briefly explain about Garbage Collection in Java.
- e. What is an abstract class?
- f. What is meant by Uncaught Exception?
- g. List out any 2 AWT classes and their syntax.
- h. What is event delegation model?
- i. Explain methods
  - a) setBackground()
  - b) setForeground()
- j. What do you mean by Thread Synchronization?

## SECTION-B

2. Explain in detail different features Java. Write a program to show working of command line arguments.
3. Explain with the help of examples different types of Access Specifiers used in Java.
4. What is a package? How can you access classes stored in other packages? Also explain with the help of an example how to create your own packages and store classes in them.
5. What is Polymorphism? Explain with examples the different ways in which Polymorphism can be implemented in Java.

## SECTION-C

6. What is a Thread? Explain the different methods of creating a Thread with the help of examples.
7. Differentiate between an applet and an application. Explain the applet life cycle. Also explain how to create an executable applet using applet tag.
8. What is JDBC? What are the steps involved for making a connection with a database? Explain with the help of an example?
9. Explain Servlet life cycle in detail.

**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.**