**JAVA PROGRAMMING IMPORTANT QUESTIONS**

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| **UNIT - I** |
| 1. **What is an array? Explain different type of arrays and also discuss its advantages.** |
| 1. **Write a program in java that create and initialize four integer elements in an array and find the sum and average.** |
| 1. **Create a java application to get N numbers of string and display them using an array.** |
| 1. **Explain the Characteristics of Java.** |
| 1. **Explain the features of Object Oriented Programming.** |
| **UNIT - II** |
| 1. **List different types of inheritance in java. Explain each of them in detail with an example program.** |
| 1. **Abstract classes and Run time Polymorphism** |
| 1. **What is final keyword? Explain its importance in java with an example program.** |
| **UNIT- III** |
| 1. **Write a generic program to bring out the purpose of bounded types and explain with a program to find the sum and average of numbers in a generic array.** |
| 1. **Write a generic program to read two data items of different data types and display it on screen.** |
| 1. **Write a Generic method to print array of data which belongs to any class type. Analyse generics working with primitive types.** |
| 1. **Explain byte stream and character stream in detail with a example java program.** |
| **UNIT - IV** |
| 1. **With an example demonstrate the following:**   **i. Lambda expression with no parameter (6)** |

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| **ii. Lambda expression with single parameter (7)** |
| 1. **Define an ArrayList and explain its methods.** |
| 1. **Explain the List interface with suitable example.** |
| **UNIT - V** |
| 1. **Implement PreparedStatement interface in JDBC.** |
| 1. **Write a java program to print all the department names starting with C using PreparedStatement interface.** |
| 1. **Write a java program to print all the student names starting with A using PreparedStatement interface.** |
| 1. **Explain embedded SQL.** |
| **Part – C Important Questions** |
| Develop a java application to compute the EB bill amount using the following tariff.  First 100 units - Rs. 2 per unit 101-200 units - Rs. 4.50 per unit 201 -500 units - Rs. 6 per unit  > 501 units - Rs. 7 per unit |
| Write a program to obtain a string and identify whether it is a palindrome or not.  **Input** madam **Output**  madam is a Palindrome |
| Write a program to obtain a string, substring, and the string that has to replace the substring and print the modified string.  **Input format**  The first line of the input consists of a string.  The second line of the input consists of a substring.  The third line of the input consists of a string that has to replace the substring.  **Input** audacious cio |
| aaa **Output** audaaaaus |
| Write a program to accept a string and convert the first character of each word to uppercase.  **Input**  india is my country  **Ouput**  India Is My Country |
| Write a program to accept a string and count the number of vowels, consonants present in it.  **Input** Hello world **Ouput** Vowels: 3  Consonants: 7 |