** CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING**

******Advanced Computing Training School (ACTS)**

**C-DAC ATC NETCOM JAIPUR**

**Diploma in Advanced Software Development Methodologies (DASDM)**

**Student Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Module Name: OOPS and Data Structure using Java**

**PRN No \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Duration: 2 Hours**

**SET-B**

Attempt any four questions. Each Question is of equal marks.

1. Write a Java Program to input any ten string in Java String Array. Implement the following using switch case statement with menu driven programming
   1. Sort the Strings in Ascending Order
   2. Sort the String as per the length of the strings
2. Write a Java Program to print the minimum and maximum number from an Array
3. Design a Queue in Java using Array to implement the following operations (do not use built-in functions) with proper Underflow and Overflow condition
4. Queue Insert Operation
5. Queue Delete Operation
6. Queue Display Operation
7. Write a program which shows the User Defined Exceptions in Java. If the users attendance is below 75, then Print the message “You are not eligible for the Exam” otherwise show the message “You are eligible for the Exam”.
8. Write a program using Thread Synchronization
9. To find the Decimal to Hexadecimal
10. To find the Lucky Number of the given number in a thread