B.Sc. (I. T.) Sem. - IV (CBCS - 2015 Course) : SUMMER - 2019
SUBJECT- ADVANCED JAVA

Day: Saturday

Date: 11/05/2019

S-2019-1279

Time: 10.00 a.m. to 01.00 p.m.

Max. Marks: 60

N.B.:
- 1)   Attempt **ANY SIX** out of Eight.
- 2)   Figures to the right indicate **FULL** Marks.
- 3)   Draw neat, labeled **DIAGRAMS**, wherever necessary.

Q.1 **a)** How to create a Multithreaded Application in Java? Explain with a code **(05)** snippet example.

b) State the difference between wait ( ) and sleep ( ) methods for Thread.   **(05)**

Q.2   What is ServletConfig and ServletContext? Explain it with suitable diagram **(10)** and necessary code snippets.

Q.3 **a)** What are the steps to connect with a database using JDBC?   **(05)**

b) Define the following components of JDBC API -   **(05)**
  - i)   Statement   ii)   Driver Manager
  - iii)   Connection   iv)   ResultSet
  - v)   Database Metadata

Q.4   Explain the difference between Set and Map interfaces. Also explain each of **(10)** the following with code snippet example:
  - i)   ArrayList   ii)   TreeSet   iii)   TreeMap

Q.5   Define JSP and its advantages as compared to Servlet? Define the JSP Life **(10)** Cycle and illustrate with suitable diagram.

Q.6   What is Session Tracking Mechanism in Servlet? Explain ANY ONE of the **(10)** mechanisms with a code snippet example and suitable diagram.

Q.7   How do we handle events in Swing application? Illustrate with diagram?   **(10)**

Q.8   Explain mechanism of Servlet collaboration with suitable diagram and **(10)** elaborate it with a code snippet.

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