

**B.Sc. (I. T.) Sem. - IV (CBCS - 2015 Course) : WINTER - 2018**  
**SUBJECT- ADVANCED JAVA**

Day: Friday  
Date: 30/11/2018

Time: 02.30 p.m. to 05.30 p.m.  
Max. Marks: 60

**W-2018-1077**

**N.B.:**

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

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- Q.1 a)** Define Multiprocessing? What is difference between Multiprocessing and Multitasking in context of Java? **(05)**
- b)** What is the concept of Thread in Java applications? Explain the two different ways of creating a Multithreaded Application in Java? **(05)**
- Q.2** Describe MVC architecture in Swing and explain it with illustration diagram? **(10)**
- Q.3 a)** What is JDBC? Define the different types of JDBC Drivers? **(05)**
- b)** Define ResultSet? How can we change different the properties of ResultSet? **(05)**
- Q.4** What is Servlet? Define its Lifecycle and its methods, in detail. Draw necessary diagram. **(10)**
- Q.5** Define Action Tags in JSP and explain ANY FOUR of them with code snippet example for each. **(10)**
- Q.6** Explain the hierarchy of Collection Interface, with diagram. Elaborate ANY ONE Collection, with code snippet example. **(10)**
- Q.7** Explain the working of <jsp:usebean> tag. Illustrate with necessary diagram. Also explain using a code snippet example. **(10)**
- Q.8** Explain JSP Lifecycle and its methods, in detail. Draw necessary diagram. **(10)**

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