G-301

B. Tech. EXAMINATION, May 2017

(Seventh Semester)

(B. Scheme) (Re-appear Only)

(IT)

IT-401-B

ADVANCED JAVA

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. Explain the following terms : **3×5=15**
   (a) Constructor
   (b) Packages and Interfaces
   (c) File Streams and their manipulation.

2. (a) Explain the difference between swings and applets. **5**
   (b) Write a program to display a button with an image on it using swing. The image on the button will change when the button is clicked. **10**

Unit II

3. (a) What is JDBC ? Classify JDBC Driver types according to their architecture. **8**
   (b) What is Resultset and Resultset Metadata, explain their working with suitable example. **7**

4. What is Java Beans ? Explain the uses of JAR files and the use of Java Beans API. **15**

Unit III

5. (a) What are Servlets ? Explain the life-cycle of servlets. **10**
   (b) What are Cookies ? **5**

6. (a) Write a program to demonstrater passing and retrieving values of parameter to a servlet. **10**
   (b) Explain Session Tracking. **5**

Unit IV

7. Explain the architecture of JSP with JSP syntax. **15**

8. (a) Explain various synchronization issue in JSP. **7**
   (b) Explain the JSP access modes. **8**