8. (a) What is event based programming ? Create an event based program in Java.

8

(b) Write a program in java to show drag and drop function in GUI. **7**

E-183

B. Tech. EXAMINATION, Dec. 2017

(Fifth Semester)

(B. Scheme) (Main & Re-appear)

(IT)

IT-305-B

JAVA PROGRAMMING

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. (a) What is JVM ? What is its significance in JAVA. **8**

(b) What is a wrapper class in Java ? Explain with an example. **7**

2. (a) What is an Exception in Java ? Explain exception handling mechanism. **7**

(b) Using arrays write a program in Java that will take set of numeric values as input from the user and will be sorting that set. **8**

Unit II

3. (a) What are the methods available in java for inter-thread communication ? Explain their workings. **8**

(b) What are the merits of thread based multitasking as compared to process based multitasking ? Describe possible ways to create threads in java. **7**

4. Write a program in Java that will read text from a file and will output the total number of words in that file. **15**

Unit III

5. Discuss the process of creation of server and client sockets with exceptions handled explicity with a suitable example. **15**

6. (a) Write a program to demonstrate the usage of URL class. **7**

(b) Describe the difference between writing program for UDP and writing program for TCP. **8**

Unit IV

7. (a) List any eight controls from java.awt pacakge with their usage. **8**

(b) Write a program to illustrate the usage of tabbed pane. Use suitable control for case. **7**