Code No: CT1506   **GEC-R14**

II B. Tech I Semester Regular / Suppl. Examinations, November 2017
OBJECT ORIENTED PROGRAMMING
(Common to Computer Science and Engineering and Information Technology)

Time: 3 Hours   **Max. Marks: 60**

Note: All Questions from **PART-A** are to be answered at one place.
Answer any **FOUR** questions from **PART-B.** All Questions carry equal Marks.

PART-A

6 × 2 = 12M

1. Define Byte code? Explain the role of JVM in executing a Java program.
2. What is the difference between constructor and method?
3. What is an interface? How it is used to create constants and declare functions.
4. Differentiate multi tasking and multithreading.
5. Define Events and Event Sources.
6. Draw the diagram of AWT class hierarchy.

PART-B

4 × 12 = 48M

1. a) List and explain in detail all the features of Java.   (6M)

    b) Define Array? What is the syntax of creating Array? What are the different types of arrays? Explain with examples.   (6M)

2. a) Explain various ways of passing parameters with suitable examples in Java.   (6M)

    b) Explain Garbage Collection mechanism in Java.   (6M)

3. a) Explain about defining and implementing interfaces with example program.   (6M)

    b) Does Java support multiple inheritance? Justify your answer.   (6M)

4. a) Write about Exception Handling in Java.   (6M)

    b) Write a Java program to print the messages in the following sequence   (6M)
        For every 3 seconds " Welcome" message
        For every 2 seconds "Hello" message
        For every 5 seconds " Bye" message

5. a) Explain the life cycle of an Applet with an example program.   (6M)

    b) Write a Java program to handle keyboard events, which echoes keystrokes to the applet window and shows the status of each key event in the status bar.   (6M)

6. a) Explain the following Components with an example.
        i) Label   ii) Button   (6M)

    b) Explain Border Layout Manager with an example.   (6M)

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