Roll No.						

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(IT) (2012 to 2017 E-III) (Sem.–7) ADVANCED JAVA Subject Code : BTIT-906 M.Code : 71990

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- 1. Write briefly :
 - a. What is the purpose of volatile keyword in Java?
 - b. Differentiate between start and run method in Java Thread.
 - c. List any four public members of java.io.OutputStream.
 - d. Write any four characteristics of serializable interface.
 - e. How to connect Java application with Oracle and Mysql database using JDBC?
 - f. For what purpose native API driver is used?
 - g. List the advantages of Java beans.
 - h. "Like generic class, we can create generic method that can accept any type of argument". Comment.
 - i. Name the built-in Java annotations used in other annotations.
 - j. How user defined annotations are created in Java?

SECTION-B

- 2. "Callable is same as Runnable but it can return any type of Object if we want to get a result or status from work (callable)". Justify your answer with suitable reasoning.
- 3. What is console class? How can we access multiple files by single stream?
- 4. Discuss the various commonly used methods of ResultSet interface. Give suitable examples.
- 5. How wildcard is used in Java generics? Explain with suitable Java program.
- 6. Why do we need annotations in Java? How do annotations work?

SECTION-C

- 7. Discuss the process of inter-thread communication. Draw a well labeled diagram to represent thread life cycle in Java.
- 8. Discuss the concept of erasure in generics in Java. What are the effects of Type Erasure and Bridge Methods in Java?
- 9. "Protecting a bytestream outside the Java virtual machine is to encrypt the stream produced by the serialization package. Encrypting the bytestream prevents the decoding and the reading of a serialized object's private state". Explain with suitable example.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.