

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII (OLD) EXAMINATION – SUMMER 2019****Subject Code: 170703****Date: 16/05/2019****Subject Name: Advance Java Technology****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:****Attempt all questions.****Make suitable assumptions wherever necessary.****Figures to the right indicate full marks.****Q.1 (a) Explain Hibernate Architecture. 07****(b) Explain serialization of objects. Why do you need it? Explain SQL tag library 07****Q.2 (a) List and explain different features of Swing and AWT components. 07****(b) Draw and explain J2EE architecture. 07****OR****(b) Draw and explain RMI architecture. 07****Q.3 (a) Explain the action tags used to access the JavaBeans from a JSP page with example 07****(b) Explain transaction handling using JSTL 07****OR****Q.3 (a) What is the use of filter in Servlet? Explain with suitable example. 07****(b) Explain various JDBC Drivers. 07****Q.4 (a) Draw and explain life cycle of Servlet. 07****(b) Explain Request and Response Object in Servlet. 07****OR****Q.4 (a) Explain MVC Architecture. 07****(b) What is HQL? How does it differ from SQL? Give its advantages. 07****Q.5 (a) What is datagram socket explain with example. 07****(b) What is server Socket ? How it work in java ? Explain it with example. 07****OR****Q.5 (a) Explain the use of CallableStatement and PreparedStatement with example. 07****(b) Give the characteristics of the HTTP protocol and explain the GET, HEAD and PUT methods of the HTTP protocol. 07**