

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**