

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER-VII • EXAMINATION – SUMMER 2018

Subject Code: 170703

Date: 03-05-2018

Subject Name: Advance Java Technology

Time: 02:30 pm to 05:00 pm

Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

- Q.1 (a)** What is a Window pane in Swing? Explain the purpose of various kinds of Window panes. Write the syntax to add a button to the content pane. **07**
- (b)** What are the properties of a transaction? Show the use of PreparedStatement object to run precompiled SQL statement with appropriate example. **07**
- Q.2 (a)** Show the two-way communication between server and client with an example. **07**
- (b)** Explain the RMI layered architecture. **07**
- OR**
- (b)** What is JNDI? Explain its functioning and advantages. **07**
- Q.3 (a)** Write a RMI application to add two integer numbers. **07**
- (b)** List various HTTP requests methods and explain any three of them. **07**
- OR**
- Q.3 (a)** Write a RMI application to count the length of a string. **07**
- (b)** What is a web application? Describe various components of a web application. **07**
- Q.4 (a)** Explain the servlet life cycle. **07**
- (b)** i) What is a filter? What does it do? **07**
ii) Explain the Hibernate cache architecture.
- OR**
- Q.4 (a)** What are various ways of session tracking? Explain any two of them. **07**
- (b)** i) What is web.xml file? What is its importance? **07**
ii) How does HQL differ from SQL? Write down its benefits.
- Q.5 (a)** What are various action tags in JSP. Explain any five of them with syntax. **07**
- (b)** Describe the features of Core Tag library. **07**
- OR**
- Q.5 (a)** What is session object in JSP? Explain its use with proper example. **07**
- (b)** What is custom tag? Give the elements of custom tags and describe their features? **07**
