Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VI (NEW) - EXAMINATION – SUMMER 2017

Subject Code: 2160707   **Date: 01/05/2017**
Subject Name: Advanced Java
Time: 10:30 AM to 01:00 PM   **Total Marks: 70**

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

                                                                           MARKS

Q.1	Answer the following questions:	**14**
1	How to display IP address and host name for local machine.	
2	How can I determine whether a particular Isolation level is supported by database or not?	
3	How to make ResultSet cursors held open when the method commit is called?	
4	How to know information about columns in ResultSet object?	
5	How to delete a session in servlet?	
6	How to display the expiration date and last modified date for the following URL http://www.star.com/news/.	
7	How to get the name of the HTTP method with which the request was made?	
8	How to get the fully qualified name of the client that sent the request in servlet?	
9	What is difference between include directive and jsp:include action tag?	
10	How to declare in a JSP page that Indicates whether or not the page is intended to be an error page of some other JSP page.	
11	How do we print " creates a new line in HTML" in JSP?	
12	How to send a page that auto-refreshes to a new page after a given time period to a user until their requests are being processed.	
13	What are different JSF Converter tags?	
14	What are the advantages of Hibernate over JDBC?	

Q.2	**(a)**	Explain JDBC driver types in detail.	**07**
	(b)	Write a client server program using TCP where client sends a string and server checks whether that string is palindrome or not and responds with appropriate message.	**07**

OR

	(b)	Explain architecture of Hibernate.	**07**
Q.3	**(a)**	Explain different stages of JSP Page Life Cycle.	**07**
	(b)	Design a form to input details of an employee and submit the data to a servlet. Write code for servlet that will save the entered details as a new record in database table Employee with fields (EmpId, EName, Email, Age).	**07**

OR

Q.3	**(a)**	Explain role of Prepared Statement and Callable Statement with example.	**07**
	(b)	Explain architecture of Spring MVC Framework. Explain all modules in brief.	**07**

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Q.4	**(a)**	Explain use of <jsp:useBean> action tag with example.	**03**
	(b)	Write a JSP program using JSTL SQL taglib to display student details in tabular form by iterating through the database table student.	**04**
	(c)	What is O/R Mapping? How it is implemented using Hibernate. Explain with example.	**07**

OR

Q.4	**(a)**	Explain use of DatabaseMetaData with example.	**03**
	(b)	Explain use of ServletConfig and ServletContext object with example.	**04**
	(c)	Explain JSTL core tags.	**07**
Q.5	**(a)**	Write a servlet that redirect requests alternatively to JSP Pages named Odd and Even.	**03**
	(b)	What is Request Dispatcher? What is the difference between Request dispatcher's forward() and include() method?	**04**
	(c)	Explain JSF life cycle phases.	**07**

OR

Q.5	**(a)**	What is Dependency Injection?	**03**
	(b)	What is Spring IoC container?	**04**
	(c)	Explain various Session tracking mechanisms in servlet with example.	**07**

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