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**

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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