

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2018****Subject Code:2160707****Date:20/11/2018****Subject Name:Advanced Java****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.

MARKS

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|------------|--|-----------|
| Q.1 | (a) What is difference between include directive and jsp:include action tag? | 03 |
| | (b) Draw and explain hibernate architecture. | 04 |
| | (c) List different types of JDBC drivers and explain any two of them. | 07 |
| Q.2 | (a) Write a java program to find an IP address of the machine on which the program runs. | 03 |
| | (b) Explain difference between ServletConfig and ServletContext object. | 04 |
| | (c) Write a client-server application using TCP Sockets where client can send message and server respond with the reverse of them. | 07 |
| | OR | |
| | (c) Write a Servlet that takes two numbers as an input and display all the prime numbers between them. Also write web.xml description for the servlet. | 07 |
| Q.3 | (a) Explain ResultSetMetaData with suitable program. | 03 |
| | (b) List the JSTL core tags and explain any two with example. | 04 |
| | (c) What is CallableStatement? Show that how to use it to call a stored procedure running at database layer. | 07 |
| | OR | |
| Q.3 | (a) Explain DataBaseMetaData with example. | 03 |
| | (b) Explain any two page directive in JSP with example. | 04 |
| | (c) Explain the use of the PreparedStatement object of the JDBC with an appropriate example | 07 |
| Q.4 | (a) List advantages of JSP over Servlet | 03 |
| | (b) What is Servlet? Explain Servlet Life Cycle . | 04 |
| | (c) What is MVC architecture? Explain Spring architecture with neat sketch. | 07 |
| | OR | |
| Q.4 | (a) Differentiate between GenericServlet and HttpServlet | 03 |
| | (b) Explain JSP life cycle phases. | 04 |
| | (c) What is ORM? Explain object/relational mappings in hibernate. | 07 |
| Q.5 | (a) What is Filter? List the applications of filter. | 03 |
| | (b) What is Dependency Injection? | 04 |
| | (c) Draw the JSF request processing life cycle and briefly give the function of each phase. | 07 |
| | OR | |
| Q.5 | (a) List the JSF facelets tags and explain any two. | 03 |
| | (b) Briefly explain spring bean life cycle. | 04 |
| | (c) List the JSF validation tags and explain any two. | 07 |
