

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2017

Subject Code: 2160707

Date: 08/11/2017

Subject Name: Advanced Java

Time: 02:30 PM TO 05:00PM

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) | Discuss the application design with MVC architecture. | 03 |
| (b) | Discuss the use of GET and POST with example. | 04 |
| (c) | Write a program to insert student records to database using prepared statement. | 07 |

- Q.2**
- | | | |
|-----|--|-----------|
| (a) | Discuss the difference between the Socket and ServerSocket class. | 03 |
| (b) | Discuss CallableStatement with example. | 04 |
| (c) | Write a client-server program using UDP socket. Client send list of N numbers to server and server respond the sum of N numbers. | 07 |

OR

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|-----|---|-----------|
| (c) | Write a client-server program using UDP socket. Client send the list of N strings and server responds the concatenation of those strings. | 07 |
|-----|---|-----------|
- Q.3**
- | | | |
|-----|--|-----------|
| (a) | What is session? List the different ways to manage the session. | 03 |
| (b) | Discuss the possible uses of the ServletContext and ServletConfig object. | 04 |
| (c) | Write a servlet RegistrationServlet to get the values from registration.html html page and display the contents. Write the web.xml file. | 07 |

OR

- Q.3**
- | | | |
|-----|---|-----------|
| (a) | What is Filter? List the applications of filter. | 03 |
| (b) | Briefly explain the Servlet life cycle. | 04 |
| (c) | Write a Login servlet. Take input username and password from html file login.html and authenticate the user. Write the web.xml. | 07 |

- Q.4**
- | | | |
|-----|--|-----------|
| (a) | List JSP implicit objects and explain any two. | 03 |
| (b) | Briefly explain JSP life cycle. | 04 |
| (c) | Develop JSP page to display student information with subjects for particular semester from database. | 07 |

OR

- Q.4**
- | | | |
|-----|---|-----------|
| (a) | Compare JSP and Servlet. | 03 |
| (b) | List the JSTL core tags and explain any four with example. | 04 |
| (c) | Write a login.jsp page to get the login information from user and authenticate user with the database with JSTL SQL tags. | 07 |

- Q.5**
- | | | |
|-----|--|-----------|
| (a) | List the JSF facelets tags and explain any two. | 03 |
| (b) | What is hibernate? List the advantages of hibernate over JDBC. | 04 |
| (c) | Develop program to get all students data from database using hibernate. Write necessary xml files. | 07 |

OR

- Q.5**
- | | | |
|-----|---|-----------|
| (a) | List the JSF validation tags and explain any two. | 03 |
| (b) | Briefly explain spring bean life cycle. | 04 |
