

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SEVENTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

Course Code: IT409

Course Name: WEB APPLICATION DEVELOPMENT

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.

Marks

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|---|----|---|------|
| 1 | a) | With a neat diagram explain the life cycle of a web application | (10) |
| | b) | Differentiate between 2-tier and 3-tier JDBC architecture. | (5) |
| 2 | a) | Design and Develop a Servlet based web application to update the basic salary of all employees belonging to the department of sales by 5%, assuming there exists an employee table with field(e_id,e_dept,e_name,b_sal,n_sal) | (10) |
| | b) | List out the benefits of Servlets. | (5) |
| 3 | a) | Give any three methods to overcome the stateless nature of HTTP protocol. | (9) |
| | b) | Explain the methods used to implement the life cycle of Servlets. | (6) |

PART B

Answer any two full questions, each carries 15 marks.

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|---|----|--|------|
| 4 | a) | How to pass control from one JSP page to another? | (5) |
| | b) | Create a java bean 'User' having attributes fname, lname, rollno and address.
Write a JSP page viewuser.jsp that displays the bean values | (10) |
| 5 | a) | What is session tracking? What is its purpose? | (9) |
| | b) | Write a JSP program to demonstrate the use of taglib directive | (4) |
| | c) | What is the use of 'include' attribute of page directive? | (2) |
| 6 | a) | Explain the importance of data sharing among JSP Pages. Design and Develop a JSP based web application to display the values which is being entered by the user in a registration form | (9) |
| | b) | How does Error handling is done in JSP | (6) |

PART C

Answer any two full questions, each carries 20 marks.

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| 7 | a) | Explain the Container Managed Persistence of an EJB | (5) |
| | b) | With a neat diagram show how can we perform distributed programming | (5) |

- c) Illustrate the steps involved in the building of a session bean (10)
- 8 a) Explain the services provided by the EJB Container (7)
- b) What are the characteristics of Stateless and Stateful session bean (3)
- c) With a neat sketch explain CORBA Architecture (10)
- 9 a) List out the benefits of Enterprise Java Beans (6)
- b) Explain the roles of persistence manager (4)
- c) With a neat sketch explain the processes involved in the life cycle of an EJB (10)
