

**GANPAT UNIVERSITY****B. Tech. Semester: V Computer Engineering/Information Technology****CBCS Regular Examination November - December 2015****2CE505/2IT505: Advanced Java****Time: 3 Hours****Total Marks: 70**

- Instruction:**
1. Attempt all questions.
  2. Figures to the right indicate full marks.
  3. Each section should be written in a separate answer book.
  4. Assume necessary data when needed.

**SECTION - I**

- Que.1 [A] Explain life cycle of JSP. [6]  
 [B] What is servlet collaboration? Differentiate forward() and include() methods with example. [6]

**OR**

- Que.1 [A] Enlist JSP implicit objects and explain any three in detail. [6]  
 [B] Explain ServletContext class and web.xml file. [6]

- Que.2 [A] Write use of Expression Language (EL) with syntax. Create an index.jsp page to display current date and time. Also create error.jsp page which displays exception message if exception occurred in index.jsp. [4]  
 [B] Create login.html that accepts the username and password, then submit it to Login.java servlet. In Login.java verify credentials through database and on success, set the username in the HTTP session and call Welcome.java servlet which shows a "Welcome <username>" message. [7]

**OR**

- Que.2 [A] Explain <jsp:include> and <jsp:forward> action tags with example. [4]  
 [B] Differentiate between cookies and URL rewriting techniques of session tracking. Create a servlet that tracks the number of times a user has visited a site using cookie. [7]

- Que.3 [A] List out protocols used in Java mail API. Discuss steps to send email using Java mail in detail. [6]  
 [B] Explain types of EJB. [6]



## SECTION – II

- Que.4 [A] Explain MVC in swing. Explain LookAndFeel of swing. [6]  
 [B] Explain the use of CallableStatement with example. Compare CallableStatement with PreparedStatement. [6]

OR

- Que.4 [A] Explain delegation event model and event handling. How to implement event handler for checkbox in swing? [6]  
 [B] Explain JDBC driver types in detail. [6]

- Que.5 [A] What is need of LayoutManager? Write a swing program which demonstrates the use of BorderLayout. [5]  
 [B] Consider Book table with fields BookId, BookName, AuthorName, Publication and Edition. Write a JDBC program to insert three records into Book table using transaction and batch processing. [6]

OR

- Que.5 [A] Create a JFrame which allows user to enter first and last names in text fields and say hello to the person named when clicks on button as shown in Figure 1. [5]

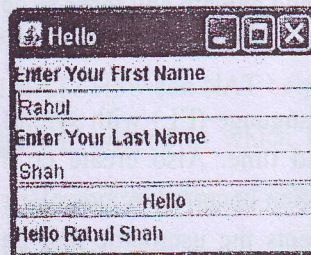


Figure 1

- [B] Consider Employee table (id numeric, name varchar(50), address varchar(50), age numeric). Write a JDBC program to fetch all records of Employee table and increase age of all employees by 5 using ResultSet. [6]
- Que.6 [A] What is Java EE? Explain enterprise architecture and its types. [6]  
 [B] What is XML? Discuss applications of XML. [3]  
 [C] Show the life cycle of applet using program. [3]

END OF PAPER