

GANPAT UNIVERSITY**B. TECH. SEM: V COMPUTER ENGINEERING/INFORMATION TECHNOLOGY****REGULAR EXAMINATION NOV-DEC 2016****2CE506/2IT506: ADVANCED JAVA****TIME: 3 HRS****TOTAL MARKS: 60**

- Instructions:** (1) This Question paper has two sections. Attempt each section in separate answer book.
(2) Figures on right indicate marks.
(3) Be precise and to the point in answering the descriptive questions.

SECTION - I

- Q.1 (A) Describe the servlet life cycle. (4)
(B) What is ORM? Explain hibernate architecture. (6)

OR

- Q.1 (A) Compare url rewriting and hidden field technique with example in servlet. (4)
(B) Write steps for creating hibernate application. Discuss hibernate configuration and mapping file with example. (6)

- Q.2 (A) What is cookie? Create an HTML file poll.html having two radio buttons and one button. From html file call one servlet which shows how many times particular radio button is selected using cookie. (5)
(B) What are Java Beans? Design a CarBean class with Car details like make, cost and taxrate. Set the properties of CarBean using `<jsp:setProperty>` tag and display the Car details in JSP page using `<jsp:getProperty>`. (5)

OR

- Q.2 (A) Create login.html that accepts the username and password, then submit it to Login.java servlet. In Login.java verify credentials and on success, set the username in the HTTP session and call Welcome.java servlet which shows a "Welcome <username>" message. (5)
(B) Explain page and include directives of JSP with example. (5)
- Q.3 (A) Differentiate various scripting elements in JSP with example. (3)
(B) Explain different types of EJB in brief. (3)
(C) Write use of `<jsp:forward>` and `<jsp:include>` tag with code. (2)
(D) Differentiate HQL and SQL. Write HQL to fetch all records of Employee table. (2)

SECTION - II

- Q.4 (A) What is Java EE? Explain Java EE 5 platform with its APIs. (5)
(B) Explain JDBC batch processing with example. (5)

OR

- Q.4 (A) Explain Java EE container types and application deployment process. (5)
(B) Explain the use of CallableStatement with example. Compare CallableStatement with PreparedStatement. (5)

- Q.5 (A) Create one JFrame containing three textfields, one button and one label to find maximum among three numbers entered into textfields. When user clicks on button, label should display maximum number. (4)
(B) Consider table Employee (id numeric, name varchar(50), age numeric). Write a JDBC application to fetch all records of Employee and insert new record into table using resultset. (6)

OR

- Q.5 (A) Write a JDBC program to insert and update student's details like roll_no, name, address, age, email_id into Student table using PreparedStatement. (Assume appropriate condition for update) (6)
(B) Write a Swing program to implement following JFrame which has a JButton and a JLabel. JLabel displays the number of times the button is clicked. When user clicks on JButton, JLabel should be updated. (4)

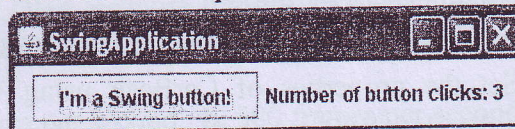


Figure 1

- Q.6 (A) Discuss protocols used in Java Mail. Write steps to send email using Java mail. (5)
(B) What is pluggable LookandFeel of swing? Write a swing program which demonstrates the use of FlowLayout. (5)

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