GANPAT UNIVERSITY
B. Tech SEMESTER-V IT EXAMINATION
NOV/DEC - 2011
IT 506 : J2EE

Time: 3 Hours]   [Total Marks: 70

Instructions:
1. Figures to the right indicate full marks
2. Each section should be written in a separate answer book
3. Be precise and to the point in your answer

SECTION-I

Q.1 Answer the following.

(A) Write an applet to display three buttons "Red", "Green" and "Blue". The (6)
color of the background changes according to the button pressed by
the user. Also, write the HTML code to display the applet.

(B) What is an event? Explain Event handling procedure using Java Swing (6)
Application.

OR

Q.1 Answer the following.

(A) Differentiate:(i) Java Application and Applet (6)
                    (ii) AWT and Swing

(B) Define the term Layout manager. Explain various layout managers for (6)
Java Swing.

Q.2 Answer the following.

(A) Explain about JDBC drivers and illustrate the database programming in (5)
Java
using JDBC.

(B) Describe a typical HTTP session. Define various HTTP request methods. (6)

OR

Q.2 Answer the following.

(A) Define the term JDBC. Write a program to create a telephone directory (5)
using JDBC.

(B) Write a Servlet to display session lifecycle information using various (6)
methods of HttpSession interface and HTTP Session API.

Q.3 Answer the following.

(A) Develop a web page using Servlet for session tracking which ask for (6)
your name and address and a print a message of welcome along with
the number of times you have visited the page. If you are visiting the
page first time the message "Welcome! For the First Visit" to be
displayed on the page.

(B) Define the term Servlet container. Explain the lifecycle of Servlet with (6)
an example.

P.T.O

Q.4 Answer the following.
(A) Explain various JSP directive elements with an example. (6)
(B) Differentiate :(i) Scriptlet and Expression elements. (6)

(ii) JSP Include directive and <jsp:include> elements

OR

Q.4 Answer the following.
(A) Describe the JSP architecture in detail. (6)
(B) Create a JSP page to implement various Scripting elements. (6)

Q.5 Answer the following.
(A) Define the term EJB. Explain the architectures of EJB2.1 and EJB3.0. (6)
(B) Implement Shopping cart service using Stateful Session Beans for EJB3.0. (5)

OR

(A) Explain Message Driven Beans with lifecycle for EJB3.0. (6)
(B) Describe Java Persistence API with an example. (5)

Q.6 Answer the following.
(A) Define the term ORM. Describe Entity manager with an example. (6)
(B) Write Short not on JavaFX. (6)

END OF PAPER