

## B. Tech. V Semester Back Paper Examination - 2016

### TCS 505 - Advance Java Programming

Time: 3 Hours

Total Marks: 100

- Note: (i) Attempt **ALL** questions.  
(ii) All Questions carry equal marks.  
(iii) Be precise in your answer.

1. Attempt **any four** parts of the following: (5 × 4 = 20)
  - (a) Describe a utility that enable to configure a set of Beans, connect them together, and produce a working application?
  - (b) What is EJB? Explain the components of Enterprise Bean architecture?
  - (c) What is an event source? What is string searching in Java? Explain.
  - (d) How the HTTP request and response handled in Java?
  - (e) How to create array in Java Scripts, define in detail
2. Attempt **any four** parts of the following: (5 × 4 = 20)
  - (a) Explain JDBC with an example code. Create a JSP application for server side form validation.
  - (b) State the function of four types of JDBC drivers?
  - (c) How JSP works? Explain with architecture.
  - (d) Explain struts with its version and why we use struts, explain.
  - (e) Write an application of client registration on the server, client registration consists student\_name, student\_course, student\_email, student\_addresses information and registered it into the database of server by using servlet
3. Attempt **any two** parts of the following: (10 × 2 = 20)
  - (a) What are Java Beans? Write step by step procedure to develop Java Bean in a JSP page.
  - (b) Write a program to connect a JSP page to Oracle database.
  - (c) Explain various drivers used for database connectivity
4. Attempt **any two** parts of the following: (10 × 2 = 20)
  - (a) Define the following in brief:
    - a. Servlet life cycle
    - b. Debugging servlets.
  - (b) Explain the origin of Java Servlet & its advantages over CGI. When is servlet object created and who is responsible to create the servlet object? Explain.
  - (c) What is session tracking? Why use it? Explain different technique used in session tracking.
5. Attempt **any two** parts of the following: (10 × 2 = 20)

- (a) What are different kinds of inheritance? What is multiple inheritance? What is problem associated with multiple inheritance?
- (b) What do you mean by multithreading? Does it have an impact in the performance of Java? Explain?
- (c) Explain the multi-tiered application and define, Is J2EE Architecture fulfills the demand of multi-tiered application?