

**University of Sargodha**

**MSc. 3<sup>rd</sup> Term Exam 2016.**

**Subject: I.T      Paper: Enterprise Applications Development (IT-4744)**

**Time Allowed: 2:30 Hour**

**Maximum Marks: 80**

**Objective Part    (Compulsory)**

**Q.1:** Note: Attempt all question, each question carry equal marks. (16 x 2=32)

1. What do you know about JSP?
2. What are session beans?
3. What is the purpose of containers?
4. What kinds of internet protocols are supported by J2EE Platforms?
5. What is enterprise JavaBeans?
6. What is JDBC?
7. What are the challenges of Enterprise Application Development?
8. What are the names of J2EE Platform roles?
9. What is J2EE?
10. How browser clients connect to a J2EE Application over a web?
11. Write the types of J2EE clients.
12. What are the benefits of components based J2EE model?
13. Where we can specify configuration at development time?
14. What do you know about multitier application?
15. What is authentication?
16. Draw the J2EE application scenario diagram?

**Subjective Part    (12 x 4= 48)**

**Q. 2:** Write on the J2EE platform Benefits.

- i. Simplified architecture and development.
- ii. Flexible security model.

**Q. 3:** Write the minimum two different J2EE application scenarios.

**Q. 4:** Describe in detail different types of J2EE clients to interact with server-side components.

**Q. 5:** Write on design issues and guidelines for browser clients.

**Q. 6:** What are Entity Beans? What are guidelines for using Entity Beans?

**Q. 7:** Describe in detail web-tier MVC view design.