

## T.Y.B. Sc IT–Sem –V

### Subject –Enterprise Java

#### Unit 1

- 1.Explain enterprise java application and it's architecture?
- 2.Write a short note on enterprise edition?
- 3.Explain java application technology or java enterprise evolution?
- 4.What is glassfish server and its uses? Explain.
- 5.What is java EE server? Everyone.
- 6.Explain java EE container and it's services?
- 7.Explain lifecycle of a servlet?
- 8.Compare CGI and servlet.
- 9.Explain the advantages of using servlet?
- 10.Explain get() and post() method in servlet?
- 11.Short note on servlet API and packages?
- 12.Explain servlet interface and methods?
- 13.Explain servlet inputstream and outputstream class?
- 14.Explain generic servlet class in java?
- 15.Explain skeleton of servlet?
- 16.Explain 2 tier and 3 tier architecture of java?

#### Unit 2

1. Explain requestDispatcher and its method?
- 2.explain the application of requestDispatcher interface?
- 3.write a program to implement requestDispatcher method ?
- 4.what are cookies. Write a short note on cookies?
- 5.explain different types of cookies?
- 6.explain working and uses of cookies?
- 7.explain in detail http.Servlet.class with eg?
- 8.write a program to implement cookies?
- 9.write a short note on session?
- 10.explain session lifecycle ?
- 11.write a short note on session tracking method ?
- 12.write a program to implement for creating a session?
- 13.How to create a process of uploading file application?
- 14.Write creating process of downloading file application?
- 15.Write a short note on non- blocking i/o?
- 16.What are the different methods available in servlet for i/o string for non-blocking i/o?

17.Explain different methods of retrieving the file?

### Unit 3

1. Explain the advantages and disadvantages of JSP?
2. Explain difference between servlet and JSP?
3. Write in detail lifecycle of JSP Page? 4. Explain in detail architecture of JSP?
5. Write a short note on JSP technology?
6. Write down execution process of JSP?
7. Explain JSP scriptlet using example?
8. Explain different elements in JSP?
9. Explain different types of directives in JSP?
10. Explain rules of writing JSP document?
11. Write a program in JSP to demonstrate login form?
12. Explain in detail action elements?
13. Write a short note on implicit object in JSP? 14. Explain different methods of session object?
15. Explain different methods of application object?
16. Explain character coating conversion in JSP?

### Unit 4

1. Explain the enterprise bean architecture?
2. List and explain various. Benefits of enterprise bean?
3. Explain the various types of enterprise beans?
4. What are session beans? explain its various types?
5. Write a note on lifecycle of stateless session bean?also develop simple visitors statistics application to demonstrate the working of stateless session bean?
6. Write a note on lifecycle of stateful session bean?
7. Write a note on lifecycle of singleton session bean?
8. Explain the on message () method of message driven bean with code spec?
9. Write the lifecycle of message driven bean?
10. What is a naming service?
11. What is a directory service?
12. Write a note on JNDI namespace in java EE?
13. Write a note on interceptors?  
Develop simple visitor statistics application by applying interceptors?

### Unit 5

1. What is a Naming Service?
2. What is Directory Service?
3. Write a note on JNDI namespace in java EE.

4. What is Persistence?
5. What are the Variors option that allow the java developers to store and retrieve persistent data?
6. List and Explain various advantages provided by Object Relational Mapping.
7. Write a note on Java Persistence API.
8. Explain the architecture of JPA 2.0.
9. Where does ORM/JPA fit?
10. Explain persistence.xml file with an example.
11. Develop a Guestbook Application Using JPA.
12. Write short notes on Hibernate.
13. Explain the architecture of Hibernate.
14. what are different components of Hibernate, Explain ?
15. Explain the working Hibernate.
16. Explain software development approach of Hibernate ?
17. Develop a Hibernate to store and retrieve employee details in MYSQL Database.
18. Develop a Hibernate application to store Feedback of Website visitor in MySQL Database.
19. Develop an application to demonstrate Hibernate One-to One Mapping using Annotation