

T.Y.B.Sc Sem-V CBCS dt. 14/02/2025

Time: (2½ Hours)

[Total Marks: 75]

- N. B.: (1) All questions are compulsory.
(2) Make suitable assumptions wherever necessary and state the assumptions made.
(3) Answers to the same question must be written together.
(4) Numbers to the right indicate marks.
(5) Draw neat labeled diagrams wherever necessary.
(6) Use of Non-programmable calculators is allowed.

Q.1 Attempt any three of the following:

15

- Explain steps to configure glassfish webserver in eclipse.
- Explain EJB container in detail.
- Explain difference between Servlet and CGI
- Write a short note on servlet packages.
- Explain JDBC Architecture.
- Discuss steps to connect JDBC driver.

Q.2 Attempt any three of the following:

15

- Explain concept of Request Dispatcher. How to get the request Dispatcher object with syntax
- Write a note on Blocking I/O and Non-blocking I/O.
- Explain advantages and disadvantages of cookies.
- Explain different Http session objects.
- Explain session monitoring methods.
- Explain the process of file uploading.

Q.3 Attempt any three of the following:

15

- Explain directive tags in JSP.
- List the various implicit objects in JSP
- Differentiate between JSP and Servlet.
- Explain life cycle of JSP.
- Explain different types of JSP Elements.
- How does JSP differ from Servlets?

Q.4 Attempt any three of the following:

15

- Explain interceptors lifecycle.
- Explain concept of JSF.
- Explain different JSF configuration files.
- Explain enterprise Bean Architecture.
- Explain state full and stateless Bean
- Write a short note on accessing EJB bean

Q.5 Attempt any three of the following:

15

- Explain different steps of configure hibernate project.
- Explain architecture of hibernate.
- Explain Java Persistence API
- Write a program to explain the concept of hibernate
- Explain types of ORM Mapping
- Explain JNDI in detail.