

B.C.A Semester - 5 (Remedial) (NEP-2020) Examination**March/April-2026****Advanced Java and J2EE (Theory) (Major-11)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Attempt following questions.(Attempt any Two) (10)
1. Explain N-Tire Architecture in detail.
 2. Explain JDBC Architecture in detail.
 3. Explain types of JDBC Drivers.
 4. Explain components of JDBC API for Database Connectivity.
- Que.2 Attempt following questions.(Attempt any Two) (10)
1. Explain Servlet Life Cycle in detail.
 2. Explain Architecture of Servlet in detail.
 3. Explain HttpServlet Request and HttpServlet Response in detail.
 4. Explain RMI Architecture in detail.
- Que.3 Attempt following questions.(Attempt any Two) (10)
1. Explain life cycle of JSP in detail.
 2. Differentiate JSP V/S Servlet.
 3. Explain JSP action elements with example.
 4. Explain exception handling in JSP with example.
- Que.4 Attempt following questions.(Attempt any Two) (10)
1. Explain types of EJB in details.
 2. Explain Hibernate Architecture in detail.
 3. Explain Spring Framework Architecture in detail.
 4. Explain Hibernate Configuration file with example.
- Que.5 Attempt following questions.(Attempt any Two) (10)
1. Explain Database Exception Handling in JDBC with example.
 2. Write short note on Stub and Skeleton.
 3. Explain JSP Scripting Elements in detail.
 4. Explain Struts Flow of Control in detail.
