

B.C.A Semester - 5 (CBCS) Examination**Oct/Nov. - 2018****CS-25 ADVANCE JAVA PROGRAMMING (J2EE) (CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que-1 Answer the following questions. (04)
- [A] 1. What is J2EE?
2. _____ class holds the list of all registered database drives, which are used for Connection.
3. In JDBC Prepared Statement, interface is used to call stored SQL procedure. Is it TRUE or FALSE?
4. List out various JDBC driver types.
- [B] Answer the following questions. (ANY ONE) (02)
1. What is Enterprise Application? List-out its characteristics.
2. Differentiate Statement, PreparedStatement and CallableStatement.
- [C] Answer the following questions. (ANY ONE) (03)
1. Give difference between execute (), executeQuery() and executeUpdate() methods.
2. What is Container? Explain types of J2EE Containers.
- [D] Answer the following questions. (ANY ONE) (05)
1. Explain methods of ResultSet interface.
2. Explain various J2EE APIs in brief.
- Que-2 Answer the following questions. (04)
- [A] 1. What is RMI?
2. List-out Servlet Life cycle methods.
3. Which method is used to read Servlet initialization parameters?
4. To define remote interface in RMI, we should extend _____ class.
- [B] Answer the following questions. (ANY ONE) (02)
1. What is stub class of RMI?
2. What is the role of Servlet's Web.xml file?
- [C] Answer the following questions. (ANY ONE) (03)
1. Explain Servlet Life cycle.
2. Explain the role of UnicastRemoteObject class in RMI.
- [D] Answer the following questions. (ANY ONE) (05)
1. Explain RMI architecture.
2. Write a Servlet that sets visitor counter using Session. Counter will be increased each time page is refreshed.
- Que-3 Answer the following questions. (04)
- [A] 1. What is Java Bean?
2. List-out JSP scopes.
3. <% @ ... %> this JSP notation used for _____.
4. List-out JSP scripting elements.

- [B] Answer the following questions. (ANY ONE) (02)
1. Explain <jsp:useBean> element.
 2. Explain include directive in JSP, and also compare with include action element of JSP.
- [C] Answer the following questions (ANY ONE) (03)
1. Explain JSP architecture.
 2. Explain Java Bean Packaging.
- [D] Answer the following questions. (ANY ONE) (05)
1. Explain error handling in JSP with example.
 2. Explain page directive in JSP.
- Que-4 Answer the following questions. (04)
- [A]
1. Define MVC.
 2. Give full form of ORM & EJB.
 3. List-out types of EJB.
 4. _____ invented Hibernate framework.
- [B] Answer the following questions. (ANY ONE) (02)
1. Explain role of Model in MVC design pattern.
 2. Define the role of Message-Driven bean.
- [C] Answer the following questions. (ANY ONE) (03)
1. Explain Hibernate Configuration file & properties file.
 2. Explain Session EJB.
- [D] Answer the following questions. (ANY ONE) (05)
1. Explain MVC architecture.
 2. Explain Inheritance Annotations.
- Que-5 Answer the following questions. (04)
- [A]
1. What is Spring framework?
 2. Define Struts framework.
 3. Give Full form of OGNL, AOP.
 4. Is Struts is ORM based framework? YES or NO
- [B] Answer the following questions. (ANY ONE) (02)
1. Explain Inversion of Control in Spring framework.
 2. Differentiate BeanFactory and ApplicationContext IoC containers.
- [C] Answer the following questions. (ANY ONE) (03)
1. Explain Spring framework modules.
 2. Explain Struts flow of control.
- [D] Answer the following questions. (ANY ONE) (05)
1. Explain advantages of Struts framework.
 2. Explain benefits of Spring framework.
