



F-003-2035001

Seat No. \_\_\_\_\_

**B. C. A. (Sem. V) (CBCS) (W.E.F. 2019) Examination**  
**October - 2022**

**CS - 25 : Advanced Java Programming (J2EE)**

**Faculty Code : 003**

**Subject Code : 2035001**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) Give full form of ODBC.
  - (2) Give full form of JDBC.
  - (3) JNDI stands for?
  - (4) \_\_\_\_\_ method is used to send precompiled query to the database.
- (b) Answer in brief : (any one) 2
- (1) Explain thin client and thick client in brief.
  - (2) Explain Resultset.
- (c) Answer in detail : (any one) 3
- (1) Explain JDBC Driver types.
  - (2) Explain PreparedStatement with example.
- (d) Write a note on following question : (any one) 5
- (1) What are Enterprise Architecture Styles? Explain in detail.
  - (2) Explain the JDBC-MySQL connectivity stepwise in detail with example.
- 2 (a) Attempt the following : 4
- (1) Give the full form of RRL?
  - (2) \_\_\_\_\_ file is known as a deployment descriptor.
  - (3) RMI stands for?
  - (4) \_\_\_\_\_ is the server side proxy of the remote object.
- (b) Answer in brief : (any one) 2
- (1) Explain URL Rewriting and hidden form field in servlet.
  - (2) Explain include() method of Request Dispatcher.
- (c) Answer in detail : (any one) 3
- (1) Explain Life Cycle of Servlet with example.
  - (2) Explain Stub and Skeleton.
- (d) Write a note on following question : (any one) 5
- (1) Write a servlet code to indicate page counter or the number of times user has visited the page.
  - (2) What is RMI? Explain RMI Architecture in detail.

- 3 (a) Attempt the following : 4  
 (1) \_\_\_\_\_ tag allows to write Java code into JSP file.  
 (2) Full form of JSP is \_\_\_\_\_.  
 (3) List out scope of the JSP objects.  
 (4) Full form of MIME is \_\_\_\_\_.
- (b) Answer in brief : (any one) 2  
 (1) Explain JSP implicit objects.  
 (2) Explain page Directive.
- (c) Answer in detail : (any one) 3  
 (1) Differentiate: JSP V/s Servlet.  
 (2) Explain JSP Architecture.
- (d) Write a note on following question : (any one) 5  
 (1) What is Java Beans? Explain its properties.  
 (2) Explain life cycle of JSP.
- 4 (a) Attempt the following : 4  
 (1) List out types of EJB.  
 (2) POJO Stand for \_\_\_\_\_.  
 (3) ORM stands for \_\_\_\_\_.  
 (4) \_\_\_\_\_ is the name of Hibernate own query language.
- (b) Answer in brief : (any one) 2  
 (1) Define the term MVC with example.  
 (2) Explain Hibernate Configuration file.
- (c) Answer in detail : (any one) 3  
 (1) Explain EJB in detail.  
 (2) Give advantage Hibernate.
- (d) Write a note on following question : (any one) 5  
 (1) Explain Hibernate Architecture in detail.  
 (2) Explain hibernate annotation in detail.
- 5 (a) Attempt the following : 4  
 (1) Full form of AOP is \_\_\_\_\_.  
 (2) Full form of IOC is \_\_\_\_\_.  
 (3) Struts based application use \_\_\_\_\_ in design pattern of an application.  
 (4) What is the full form of DI?
- (b) Answer in brief : (any one) 2  
 (1) What is Struts?  
 (2) What is Spring Context?
- (c) Answer in detail : (any one) 3  
 (1) Explain Spring MVC with example.  
 (2) Explain AOP.
- (d) Write a note on following question : (any one) 5  
 (1) Explain Spring Framework Architecture.  
 (2) Explain Struts Flow of Control in detail.