**BCF-003-0003507**  Seat No. _____

# B. C. A. (Sem. V) (CBCS) Examination

### August – 2021

## CS - 25 : Advance Java Programming (J2EE)

**Faculty Code : 003**

**Subject Code : 0003507**

Time : $2\frac{1}{2}$ Hours]  [Total Marks : **70**

1 (A) Objective type questions : **4**

(1) Which packages contain the JDBC classes? java. sql

(2) JDBC Type-1 driver is also known as _____ driver. JDBC-ODBC bridge

(3) Which method is used to call stored procedure from the database? prepareCall()

(4) Which method is used to load the driver? Class.forName()

(B) Attempt any **one** : **2**

Explain Stub and Skeleton.

(C) Attempt any **one** : **3**

Explain N tier Architecture.

(D) Attempt any **one** : **5**

Describe Connection Class with example.

2 (A) Objective type questions : **4**

(1) Which type of driver converts all JDBC calls into ODBC calls? JDBC-ODBC bridge

(2) What is use of lookup() method? finds the descriptor for a class that can be serialized.

(3) _____ method is used to identify Remote Object. RMI

(4) Write the signature of forName() method. public static Class<?> forName (Module module,String name)

(B) Attempt any **one** : **2**

Explain navigation methods of ResultSet interface.

(C) Attempt any **one** :                                                                  3

Give difference between JDBC and ODBC.

(D) Attempt any **one** :                                                                  5

Describe Architecture of RMI.

**3**   (A)  Objective type questions :                                                    4

  (1)  What is interface? *An interface in Java is a blueprint of a class.*

  (2)  Full form of HTTP is _____ *Hypertext Transfer Protocol*

  (3)  Full form of MIME is _____ *Multipurpose Internet Mail Extensions*

  (4)  A piece of data is assigned by server and stored
       at client is known as _____ *Client-server model*

  (B)  Attempt any **one** :                                                               2

Explain Servlet Exception.

  (C)  Attempt any **one** :                                                               3

Describe any three method of ServletResponce interface.

  (D)  Attempt any **one** :                                                               5

Write program and create servlet file for user login.

**4**   (A)  Objective type questions :                                                    4

  (1)  What is a servlet? *Servlet is a technology which is used to create a web application.*

  (2)  What is cookies? *small files of information that a web server generates and sends to a web browser*

  (3)  Write methods of ServletContext interface?

  (4)  What is URL Encoding? *translates special characters from the URL to a representation that adheres to the spec and can be correctly understood and interpreted.*

  (B)  Attempt any **one** :                                                               2

Explain Servlet Interface.

  (C)  Attempt any **one** :                                                               3

Explain Session Tracking API.

  (D)  Attempt any **one** :                                                               5

Explain Error handling using page directive with an
example.

**5**   (A)  Objective type questions :                                                    4

  (1)  What is RequestDispatcher ? *receives requests from the client and sends them to any resource on the server.*

  (2)  How to set Session Timeouts? *session.setMaxInactiveInterval(300);*

  (3)  Which Methods is use to get Last Accessed Times? *lastAccessTime()*

  (4)  List methods of Interface ServletRequestListener. *requestDestroyed() requestInitialized()*

(B) Attempt any **one** : 2

What is URL Rewriting?

(C) Attempt any **one** : 3

What is SSL Sessions?

(D) Attempt any **one** : 5

Difference between Filter and Listener in Servlet.

**6** (A) Objective type questions : 4

(1) What is URL Rewriting? a process of appending or modifying any url structure while loading a page

(2) Which method is user for remove Session attributes. removeAttribute(String name)

(3) What is Session Timeouts? determines how long the server maintains a session if a user does not explicitly invalidate the session

(4) What is Session? particular interval of time

(B) Attempt any **one** : 2

List methods of Interface ServletRequestListener.

(C) Attempt any **one** : 3

Explain hibernate annotation with an example.

(D) Attempt any **one** : 5

Explain with example Filters for pre and post processing
of request

**7** (A) Objective type questions : 4

(1) List types of Cache supported by hibernate. First Level Cache, Second Level Cache, Query Cache

(2) Full form of EJB? enterprise java bean

(3) Use of Session Beans. represents a single client inside the Application Server.

(4) Which scope is the most restrictive scope in JSP?

(B) Attempt any **one** : 2

Explain <jsp : param>.

(C) Attempt any **one** : 3

Explain hibernate annotation with an example.

(D) Attempt any **one** : 5

Explain Hibernate Architecture.

**8** (A) Objective type questions : 4

(1) HQL stands for _____ Hibernate Query Language

(2) List types of Cache supported by hibernate. First Level Cache, Second Level Cache, Query Cache

(3) Use of Entity Beans. performing complex tasks that involve coarse-grained persistence for remote clients

(4) What is Timer service in hibernate? a mechanism by which scheduled application can be build.

(B) Attempt any **one** :    2

To add Java code in JSP page which tag is used with example?

(C) Attempt any **one** :    3

Give an example of hibernate with XML.

(D) Attempt any **one** :    5

Advantages of Hibernate over JDBC.

9 (A) Objective type questions :    4

(1) _____ is a Framework of frameworks

(2) EL stands for _____ Expression Language

(3) Write use of Properties Files. to store the configurable parameters of an application

(4) IoC stands for _____ Inversion of Control

(B) Attempt any **one** :    2

Explain Implicit Objects in JSP - Expression Language.

(C) Attempt any **one** :    3

Struts Flow of Control.

(D) Attempt any **one** :    5

Explain IOC and Dependency Injection.

10 (A) Objective type questions :    4

(1) AOP stands for _____ Aspect-oriented programming

(2) MVC stands for _____ model-view-controller

(3) Write use Spring. for building enterprise Java applications

(4) Write use Struts Framework. enables you to create maintainable, extensible, and flexible web applications based on standard technologies

(B) Attempt any **one** :    2

Write use Spring Framework.

(C) Attempt any **one** :    3

Write use Handling Request Parameters with FormBeans.

(D) Attempt any **one** :    5

Explain Spring Architecture.

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