



**DAA-003-003507**

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

**B. C. A. (Sem. - V) (CBCS) Examination**

**May / June - 2015**

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

**Faculty Code : 003**

**Subject Code : 003507**

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

[Total Marks : 70

**Instruction** : Write answer of all questions (including MCQ) in answersheet only

1 Select the appropriate choice from given answers : **20**

(1) \_\_\_\_\_ Layer of RMI is based on TCP/IP connection between machines in network.

- (a) Stub layer
- (b) Skeleton layer
- (c) Remote Reference Layer
- (d) Transport Layer.

(2) Containers are \_\_\_\_\_

- (a) Interface between client and component
- (b) Platform oriented functionality
- (c) Both (a) and (b)
- (d) None

(3) Which of these package is used for remote method invocation?

- (a) java.applet
- (b) java.rmi
- (c) java.lang.rmi
- (d) java.lang.reflect

- (4) The \_\_\_\_\_ package contains classes that help in connecting to a database
- (a) connection.sql      (b) db.sql
- (c) pkg.sql              (d) java.sql
- (5) The difference between Servlets and JSP is the \_\_\_\_\_.
- (a) translation          (b) compilation
- (c) Syntax                (d) Both (a) and (b)
- (6) Which HTTP method gets invoked when a user clicks on a link?
- (a) GET                    (b) POST
- (c) HEAD                  (d) PUT
- (7) In a web application, running in a webserver, who is responsible for creating request and response objects?
- (a) Web server            (b) Servlet
- (c) Container             (d) Client
- (8) For execution of DELETE SQL query in JDBC, \_\_\_\_\_ method must be used.
- (a) executeQuery()      (b) executeDeleteQuery()
- (c) executeUpdate()     (d) executeDelete()

- (9) MS-SQL stores data in a \_\_\_\_\_ file format.
- (a) .DAT                      (b) .MDB
- (c) .MSSQL                    (d) .OBJ
- (10) \_\_\_\_\_ represents a transient conversation with a client.
- (a) Entity bean              (b) Message driven bean
- (c) Session bean            (d) All of the above
- (11) What is the root level element in a hibernate mapping file?
- (a) <hibernate-mapping>
- (b) <session-mapping>
- (c) <sessionfactory-mapping>
- (d) None of the above
- (12) Which statement is correct?
- (a) Only the Session that you obtained with sf.getCurrentSession() is flushed and closed automatically
- (b) Only the Session that you obtained with sf.openSession() is flushed and closed automatically
- (c) Only the Session that you obtained with sf.getSession() is flushed and closed automatically
- (d) Only the Session that you obtained with sf.getSession() is flushed and closed automatically

- (13) Is Hibernate Session threadsafe?
- (a) Yes
  - (b) No
  - (c) In Specific Situation
  - (d) No relation with Thread
- (14) It is possible to declare mappings for multiple classes in one mapping file?
- (a) Yes
  - (b) No
  - (c) Can't Say
  - (d) Not all time.
- (15) Spring Frame work is a
- (a) Open Source
  - (b) Layered Architecture
  - (c) Aspect Oriented
  - (d) All of the above
- (16) \_\_\_\_\_ module provides the fundamental functionality of the Spring framework.
- (a) Core Container
  - (b) SpringContext
  - (c) Sprint AOP
  - (d) ApplicationContext
- (17) EJB is a
- (a) Middleware
  - (b) Scalable component architecture
  - (c) Component architecture to encapsulate business logic
  - (d) All of the above.

- (18) Which of the following EJB type has no Remote interfaces?
- (a) Message-Driven Bean
  - (b) Entity Bean
  - (c) Session Bean
  - (d) Sessionless Bean.
- (19) Which of the following is true for JNDI?
- (a) Database service
  - (b) Naming and Directory Service
  - (c) Network Service
  - (d) Web Service
- (20) Which object is used to forward the request processing from one servlet to another?
- (a) ServletContext      (b) ServletConfig
  - (c) RequestDispatcher   (d) ResponseDispatcher

**2** (A) Answer the following : **(any three)**

**6**

- (1) Explain Enterprise Architecture.
- (2) Explain Resultset in JDBC.
- (3) Explain Stub and Skeleton.
- (4) Explain HTTP Servlet Glass.
- (5) What is Hidden Form Field ?
- (6) Explain Directive Elements.

(B) Answer the following : **(any three)** **9**

- (1) Explain Scope of JSP variables.
- (2) Explain Exception object in JSP.
- (3) Explain how Session tracking is done with URL Rewriting.
- (4) Explain Connection interface.
- (5) Explain Database Metadata.
- (6) What is Container ? Explain Tomcat as a Web container.

(C) Answer the following : **(any two)** **10**

- (1) Explain an example of RMI.
- (2) Write short note on Database Drivers.
- (3) Write a Java program that connect with the Access database and insert record in the table named user. The structure of table shown below.  
  
Emp\_id, Emp\_name, Password, Email address
- (4) Write a servlet example receiving input from HTML forms and display them into the servlet.
- (5) Write short note on J2EE APIs.

**3** (A) Answer the following : **(any three)** **6**

- (1) What is MVC ?
- (2) What is EJB ? Explain its advantages.
- (3) Explain the features of Hibernate.

- (4) Define Spring Context.
- (5) Explain Struts flow of control.
- (6) Explain Hibernnet Configuration file.

(B) Answer the following : **(any three)** **9**

- (1) Explain JavaSean Properties.
- (2) State Types of EJB. Explain Message Driven Bean.
- (3) Explain Annotation in Hibernate.
- (4) Explain Inversion of Control in Spring.
- (5) What is Aspect Oriented Programming ?
- (6) What is Struts ? Compare with MVC using RequestDispatcher.

(C) Answer the following : **(any two)** **10**

- (1) Write short note on MVC Architecture.
- (2) Write short note on Hibernate Inheritance.
- (3) Explain Hibernate Session.
- (4) Write short note on Spring Architecture.
- (5) Explain how to process Request in Struts ?

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