



**HCL-003-003507**

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

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

**October - 2017**

**Advance Java Programming (J2EE)**

**Faculty Code : 003**

**Subject Code : 003507**

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

[Total Marks : 70

**1 Attempt the following : 20**

- (1) What is thin clients?
- (2) What is JSP?
- (3) Write full form of EJB.
- (4) Write full form of CORBA.
- (5) What is XML?
- (6) Write full form of RMI.
- (7) What is Servlet?
- (8) Business logic is resides at which tier in 3 tier architecture?
- (9) The stub is \_\_\_\_\_ side proxy of the remote object.
- (10) What is the name of Hibernates own query language?
- (11) Which API is used for distributed transaction application?
- (12) Which JDBC driver Type(s) can be used in either applet or servlet code?

- (13) What is a spring?
- (14) Write full form of IoC.
- (15) Write full form of AOP.
- (16) List out basic components of Struts framework.
- (17) List out sequence of layers in Hibernate architecture.
- (18) What is Entity bean?
- (19) \_\_\_\_\_ provides communication platform between client and components.
- (20) An object on another computer is known as \_\_\_\_\_.

2 (A) Attempt any **THREE** :

6

- (1) Explain scope of JSP variables.
- (2) Explain JDBC driver types.
- (3) What is Stub and Skeleton?
- (4) Explain ResultSetMetaData.
- (5) What is Java Bean?
- (6) Explain Session Beans.

(B) Attempt any **THREE** :

9

- (1) Explain type of web container.
- (2) Describe validate ( ) and reset ( ) methods.
- (3) Explain different types of beans.
- (4) Explain Database metadata.
- (5) Explain life cycle of Servlet.
- (6) What are the classes used in Struts?

(C) Attempt any **TWO** :

10

- (1) What is J2EE? Explain features of J2EE.
- (2) Explain Architectures of J2EE.
- (3) Explain JSP life cycle.
- (4) Explain scripting element of JSP with example.
- (5) Write code to insert a record in Emp table (assume any four fields) using JDBC - ODBC connectivity.

3 (A) Attempt any **THREE** :

6

- (1) Write features of Hibernate.
- (2) Explain Inversion of Control in Spring.
- (3) Explain ServletAPI.
- (4) Explain Callable statement with example.
- (5) List out types of EJB.
- (6) What is Structs?

(B) Attempt any **THREE** :

9

- (1) Explain AOP Terminologies.
- (2) Briefly explain message driven beans.
- (3) What is Annotation in Hibernate?
- (4) Explain Session v/s Cookie of JSP.
- (5) Briefly explain Java Bean Properties.
- (6) Name any three servlet API methods for session life time.

(C) Attempt any TWO :

10

- (1) Explain Struts flow of control.
- (2) Explain Spring Architecture.
- (3) Explain Hibernate annotation.
- (4) Explain RMI with example.
- (5) Write note on MVC architecture.