Seat No.	

B.C.A. (Semester - VI) (New) (CBCS) Examination March/April-2019
ADVANCED JAVA

Day & Date: Tuesday, 16-04-2019   Max. Marks: 70
Time: 03:30 PM to 06:00 PM

Instructions: 1) All questions are compulsory.
                2) Figures to the right indicate full marks.

Q.1 Select the correct answer from the given alternatives.   14

1) JSP stands for _____.
   a) Java Service Programming   b) Java Service Pages
   c) Java Server Programming   d) Java Server Pages

2) config is instance of which class?
   a) javax.servlet.ServletContext   b) javax.servlet.ServietConfig
   c) javax.servlet.Context   d) javax.servlet.Application

3) Which of the following attributes are mandatory in <jsp:useBean /> tag?
   a) id, type   b) id, class
   c) type, class   d) type, property

4) request is instance of which class?
   a) Request   b) HttpRequest
   c) HttpServletRequest   d) ServletRequest

5) Which of the following is not a core component of Hibernate?
   a) Transaction   b) Provider
   c) Criteria   d) Query

6) HQL stands for _____.
   a) Hibernate Query Language   b) High Query Language
   c) Hybrid Query Language   d) None of the above

7) Which of the following database is supported by Hibernate?
   a) Oracle   b) PostgreSQL
   c) Sybase SQL Server   d) All of the above

8) ORM stands for _____.
   a) Object Relation Map   b) Object Relational Mapping
   c) Object Record Mapping   d) None of the above

9) Spring is a _____.
   a) Paid Framework   b) an open source framework
   c) a licensed framework   d) a proprietary framework

10) Which of the following class can be used to execute Sql queries in spring?
   a) JDBCHelper   b) JdbcTemplate
   c) DBHelper   d) DBTemplate

11) Which of the following method can be used to read a form parameter in JSP?
   a) request.getParameter()   b) response.getParameter()
   c) request.getValue()   d) reponse.getValue()

12) What type of servlets use these methods doGet(), doPost(),doHead, doDelete(), doTrace()?
   a) GenericServlet   b) HttpServlet
   c) HttpSession   d) None of these

13) Which cookie it is valid for single session only and it is removed each time when the user closes the browser?
   a) Persistent Cookie   b) Non-persistent Cookie
   c) Both A and B   d) None of these

14) Which class can handle any type of request so that it is protocol-independent?
   a) GenericServlet   b) HttpServlet
   c) HttpSession   d) None of these

Q.2 A) Answer the following. (Any Four)   **08**
   1) Write any two differences between Session and Cookie.
   2) Write any two differences between Servlet and CGI.
   3) Write and explain two implicit objects in JSP.
   4) Write syntax of forward and include action element.
   5) Write any two advantages of spring.

B) Write Notes on. (Any Two)   **06**
   1) Internationalization
   2) Resource Bundle
   3) Features of Hibernate

Q.3 A) Answer the following. (Any Two)   **08**
   1) Write a program to count how many times user has accessed the webpage using HttpSession.
   2) What is request dispatcher? Explain forward and include in request dispatcher with example.
   3) What is dependency injection? Explain with example.

B) Answer the following. (Any Two)   **06**
   1) Write and explain JSTL core tags.
   2) Write a program to implement Constructor injection with Collection in spring.
   3) Explain various directives in jsp.

Q.4 A) Answer the following. (Any two)   **10**
   1) Explain spring with hibernate with example.
   2) Explain Scripting element is JSP.
   3) Explain prepared statement in Spring Jdbc Template with example.

B) Answer the following. (Any One)   **04**
   1) Write servlet program to display user name and password using url rewritten concept.
   2) Explain life cycle methods of servlet with program.

Q.5 Answer the following. (Any two)   **14**
   a) What is cookie? Write a program to add a cookie on client browser.
   b) Explain setProperty and getProperty with suitable program.
   c) Explain collection Mapping from hibernate.