Roll No. …………………..

BCA–E-504

B. C. A. (Fifth Semester)
EXAMINATION, 2019

ADVANCE JAVA

Time : 2:30 Hours

Maximum Marks : 60

Note : Attempt all questions.

Section—A

1. Choose the correct answer :   1 each

   (a) Name any *three* framework of java.

   (b) JPA stands for _____.

   (c) What is Servlet API ?

   (d) What is Web Application ?

   (e) What of the following method is used inside session only ?

       (i)   merge( )

       (ii) update( )

       (iii) end( )

       (iv) kill( )

   (f) The term POJO :

       (i)   Plain Old Java Object

       (ii) Performance Old Java Object

       (iii) Performance Optimize Java Object

       (iv) None of the above

   (g) Which object of HttpSession can be used to view and manipulate information about a session ?

       (i)   session identifier

       (ii) creation time

       (iii) last accessed time

       (iv) All of the above

   (h) Need of Web.xmll.

   (i) Name any *two* Servers.

   (j) Server is hardware and software as well.

       (i)   True

       (ii) False

   (k) Struts is a powerful framework to develop MVC applications.

       (i)   True

       (ii) False

   (l) Why do we use index.jsp ?

2. Write short notes on any *four* of the following :

                                           3 each

   (a) Servlet Filter

(b) Types of Comment in ISP and types of errors.

(c) Discuss advantages and limitation of Cookies.

(d) Write a program to count hit counter in Servlet.

(e) Difference between HTTP Servlet and Generic Servlet.

Section—B

3. Attempt any *two* of the following questions : 6 each

(a) Explain the life cycle of Servlet Write a program to print welcome message on web browser on button click.

(b) Consider the following database table; design an HTML page and JSP to store its data in a database :

CREATE TABLE "USER432"

{"NAME" VARCHAR2(40),

"EMAIL" VARCHAR2(40),

"PASS" VARCHAR2(40)

}

(c) Discuss the sendRedirect( ) and Forward( ) methods with examples.

4. Attempt any *two* of the following questions : 6 each

(a) Explain various session management techniques. Write a program using Hidden field in Servlet.

(b) Discuss various modules of Spring Framework with suitable diagram.

(c) What is JSP ? Discuss its merits over Servlet. Compare Servlet and JSP life cycle.

5. Attempt any *two* of the following questions : 6 each

(a) Discuss the Hibernate Architecture in detail with suitable diagrams.

(b) Discuss the importance of JSP. Write a JSP program to fetch the data from the database.

(c) What is Struts ? Why do we use it ? Discuss the salient features of Struts2 Framework.