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AA—39—2019

FACULTY OF COMPUTER STUDIES

B.Sc. (CS) (Third Year) (Fifth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2019

(CBCS Pattern)

COMPUTER SCIENCE

(S5-CC-3)

(JSP and Servlet)

(Friday, 18-10-2019)   **Time : 10.00 a.m. to 1.00 p.m.**

Time—3 Hours   *Maximum Marks*—75

N.B. :— (i)   *All* questions are compulsory.

(ii)   Figures to the right indicate full marks.

1. Attempt any *five* of the following :   15

    (a)   Advantages of servlet over traditional CGI.

    (b)   Explain applets.

    (c)   Explain import attribute in JSP.

    (d)   Explain forwarding request with JSP : forward method.

    (e)   Explain MVC framework in short.

    (f)   Explain JBBC architecture in detail.

    (g)   Explain why use beans.

2. Attempt any *two* of the following :   10

    (a)   Explain life-cycle of servlet.

    (b)   Explain why we build web pages dynamically.

    (c)   Write a servlet program that generates HTML text.

P.T.O.

3. Attempt any *two* of the following : 10

   (*a*)   Explain how to read form data from servlet.

   (*b*)   Explain creating and using cookies.

   (*c*)   Write a program that shows per client access count.

4. Attempt any *two* of the following : 10

   (*a*)   Explain basic scripting elements in JSP.

   (*b*)   Explain using Java code from JSP.

   (*c*)   Write a program in JSP to generate excel spreadsheet.

5. Attempt any *two* of the following : 10

   (*a*)   What is Java bean ? Explain how to use beans.

   (*b*)   Explain JSP include action in detail.

   (*c*)   Explain including applet in JSP.

6. Attempt any *two* of the following : 10

   (*a*)   Explain architecture of MVC framework.

   (*b*)   Explain implementing MVC with Request Dispatcher.

   (*c*)   Write a program in JSP to implement MVC.

7. Attempt any *two* of the following : 10

   (*a*)   What is JDBC ? Explain JDBC API.

   (*b*)   Explain how to establish database connection using JDBC.

   (*c*)   Explain PreparedStatement in detail.