BBK-003-1074001   Seat No. _____

M. C. A. (Sem. IV) (CBCS) (W.I.F. 2016) Examination
July - 2021
P - 4010 : Advanced Java
(New Course)

Faculty Code : 003

Subject Code : 1074001

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

Attempt any five of the following

1 (a) Attempt the following   04
    (1) Which packages should be imported to use swing components in program?
    (2) What is the use of JFrame?
    (3) What is the use of JPopupMenu?
    (4) Write any one method of JPasswordField.
  (b) Why swing components are known as light weight components?   02
  (c) Explain JCheckBox with appropriate example   03
  (d) Explain JButton with its event handling and appropriate example.   05

2 (a) Attempt the following   04
    (1) What is swing in Java?
    (2) What is the use of JApplet?
    (3) Write any one method of JList.
    (4) What is the use of JScrollPane?
  (b) Explain key features of swing.   02
  (c) Explain JTextField with appropriate example   03
  (d) Explain JComboBox with its event handling and appropriate example.   05

3 (a) Attempt the following   04
    (1) Which method of ResultSet is used to bring cursor to the first row?
    (2) What is the use of executeQuery()?
    (3) Which method of ResultSet is used to get integer column value?
    (4) Which package should be imported to use JDBC classes?
  (b) Explain in brief Type-1 JDBC-ODBC Bridge Driver.   02
  (c) Write a code snippet to delete record from database using JDBC classes. [Assume   03
    suitable database and table structure.]
  (d) Explain step-by-step process to connect java with any database using JDBC.   05

4 (a) Attempt the following   04
    (1) Which method of ResultSet is used to bring cursor to the previous row?
    (2) What is the use of createStatement()?
    (3) Which method of ResultSet is used to get value for string column?
    (4) Which exception database connectivity code can throw?

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(b) Explain in brief Type-4 Pure Java Driver.   02

(c) Write a code snippet to insert record into database using JDBC classes. [Assume   03 suitable database and table structure.]

(d) Explain fetching records from database table using appropriate JDBC classes.   05 [Assume suitable database and table structure.]

5 (a) Attempt the following   04

    (1) How to create object of ServerSocket?

    (2) What is socket?

    (3) What is DNS?

    (4) What is stub in RMI?

(b) Explain any one method of Socket class.   02

(c) What is object serialization?   03

(d) Write simple client server program using UDP.   05

6 (a) Attempt the following   04

    (1) How to create object of Socket?

    (2) What is port?

    (3) What is RMI?

    (4) What is skeleton in RMI?

(b) Explain any one method of ServerSocket class.   02

(c) How RMI is useful?   03

(d) Write simple client server program using TCP.   05

7 (a) Attempt the following   04

    (1) What is Servlet?

    (2) What is the use of <url-pattern>?

    (3) Which packages should be imported to run servlet?

    (4) Explain in brief getWriter().

(b) Explain in brief getSerlvetName().   02

(c) Explain getInitParameterNames() with example.   03

(d) Explain lifecycle of servlet.   05

8 (a) Attempt the following   04

    (1) What is HttpServlet?

    (2) What is the use of <servlet-class>?

    (3) Which packages should be imported to run HttpServlet?

    (4) Explain in brief getServletInfo().

(b) Explain in brief getServletContext().   02

(c) Explain getAttributeNames() with example.   03

(d) Explain creating and reading cookies using servlet.   05

9 (a) Attempt the following   04

    (1) What is JSP?

    (2) What is the use of <jsp:useBean>?

    (3) What is the use of page directive?

    (4) What is scriptlet?

(b) Explain jsp:setProperty with example.   02

(c) Explain JSP scripting element – declaration with example.   03

(d) Explain <jsp:include> with example.   05

10 (a) Attempt the following   04

     (1) Which symbols are used to do code comment in JSP?

     (2) What is the use of <jsp:plugin>?

     (3) What is the use of taglib directive?

     (4) What is the use of page directive?

(b) Explain jsp:getProperty with example.   02

(c) Explain JSP scripting element – expression with example.   03

(d) Explain <jsp:forward> with example.   05

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