

Enrollment No:- \_\_\_\_\_

Exam Seat No:- \_\_\_\_\_

# C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 4CS041JV2

Subject Name: Programming with Java-II

Course Name: B.Sc. (IT)

Date: 14/5/2015

Semester: IV

Marks: 70

Time: 10:30 TO 01:30

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**Instructions:**

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
  - 2) Use of Programmable calculator & any other electronic instrument prohibited.
  - 3) Instructions written on main answer book are strictly to be obeyed.
  - 4) Draw neat diagrams & figures (if necessary) at right places.
  - 5) Assume suitable & perfect data if needed.
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## SECTION-I

- Q.1 Attempt the following. 7**
- a) What is container? 1
  - b) Define JDBC and list out its Drivers. 2
  - c) Define component and container. 2
  - d) Define stub and skeleton. 2
- Q.2 Attempt the following. 14**
- a) Explain JCheckBox with example 5
  - b) Explain GridLayout with example. 5
  - c) Differentiate swing and AWT 4
- OR**
- a) Explain JRadioButton with example. 5
  - b) Explain BorderLayout with example. 5
  - c) Explain Tomcat as web container. 4
- Q.3 Attempt the following. 14**
- a) Explain J2EE API. 5
  - b) Explain ResultSet with example. 5
  - c) Explain PreparedStatement with example. 4
- OR**
- a) Explain RMI architecture. 5
  - b) Explain DatabaseMetaData with example. 5
  - c) Explain any two types of JDBC Drivers. 4



## SECTION-II

- Q.4 Attempt the following. 7**
- a) What is JSP? 1
  - b) Explain expression in JSP. 2
  - c) Explain page directive in JSP. 2
  - d) Define servlet and give its any two advantages. 2
- Q.5 Attempt the following. 14**
- a) Write a short note on HttpServlet. 5
  - b) Explain `<jsp:include>` with example. 5
  - c) Describe servlet life cycle. 4
- OR**
- a) Explain cookies in servlet with example. 5
  - b) Explain implicit objects in JSP 5
  - c) Write a short note on exception handling in JSP. 4
- Q.6 Attempt the following. 14**
- a) Write a swing program to find max from two nos. using JTextField and JButton. 5
  - b) Write a JDBC program to insert a record in emp(empno, ename,salary) table. 5
  - c) Write a swing program to create two JRadioButton with named MALE, FEMALE and print selected option in JTexField when JButton is clicked. 4
- OR**
- a) Write a HTML and JSP program to enter empno and delete record from emp(empno, ename,salary) table. 5
  - b) Write HTML and servlet/JSP program to insert a record in student(rollno, Sname) table. 5
  - c) Write a servlet program to demonstrate the use of cookies. 4

