

C. U. SHAH UNIVERSITY

Summer Examination 2019

Subject Name:- **Advanced Java Programming (AJP)**

Subject Code: **5CS04MJV1**

Branch: **MCA**

Semester: **4**

Date: **26/04/2019**

Time: **2:30 To 5:30**

Marks: **70**

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

SECTION-I

- Q. 1 Answer the following questions. 07**
- (a) What is JSP Scriptlet? **03**
 - (b) What is the difference between a Scrollbar and a JScrollPane? **02**
 - (c) What is the purpose of Class.forName method? **02**
- Q. 2 Attempt all questions. 07**
- (a) Explain life cycle of the Servlet. **07**
 - (b) Explain cookies with example using Servlet. **07**
- OR**
- Q. 2 Attempt all questions. 07**
- (a) Enlist and explain the purpose and use of action tags in JSP. **07**
 - (b) Compare Java Servlet and JSP. **07**
- Q. 3 Attempt all questions. 07**
- (a) What is RMI? Give the architecture of RMI and discuss the functions of each layer. **07**
What is the role of RMI registry?
 - (b) What are the differences between Java Bean and basic Java class? Explain Java Bean architecture. **07**
- OR**
- Q. 3 Attempt all questions. 07**
- (a) Write a swing program to display multiplication of two numbers. Use Label, Text Box and Button. **07**
 - (b) Develop a program to perform the database driven operations like delete, update and select. To perform these operations, assume that table named "EMPLOYEE" with the fields EMP_TYPE, EMP_ID, EMP_NAME, EMP_DESIG, EMP_JOINING_DATE and EMP_SALARY. **07**



SECTION-II

- Q. 4 Answer the following questions.** **07**
- (a) What is JSP directives? **03**
 - (b) Why Swing components are called lightweight component? **02**
 - (c) Servlet can be implemented in code by extending the _____ or _____ **02**

- Q. 5 Attempt all questions.**
- (a) Give the advantages of n-tier architecture and discuss the objectives of the Enterprise applications. **07**
 - (b) List the Servlet session level events and show that how servlet destroy event is handled? **07**

OR

- Q. 5 Attempt all questions.**
- (a) Explain Java handlers and listeners used in Web Application. **07**
 - (b) Explain MVC Architecture in details with figure. **07**
- Q. 6 Attempt all questions.**
- (a) List and explain various swing layouts and components with examples. **07**
 - (b) What is sendRedirect() in Servlet? Differentiate between sendRedirect() and forward() method. **07**

OR

- Q. 6 Attempt all questions.**
- (a) Explain the following classes with their use: **07**
(1) URLConnection class (2) DatagramSocket and DatagramPacket class
 - (b) Explain the following classes with their use: **07**
(1) HttpServlet Class (2) GenericServlet Class.

