

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Advance Java Programming

Subject Code : 5CS02WJA1

Branch: M.Sc.IT (WebTech)

Semester : 2

Date : 20/04/2019

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & 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 Attempt following. 7**
- Define (a) to (f)**
- | | |
|-----------------------|---|
| a) JDBC | 1 |
| b) Stub | 1 |
| c) Connection | 1 |
| d) Component | 1 |
| e) Web Container | 1 |
| f) Skeleton | 1 |
| g) List LayoutManager | 1 |
- Q.-2 Attempt following. 14**
- | | |
|---|---|
| a) Explain BorderLayout with suitable example. | 5 |
| b) Explain 2-tier and 3-tier architecture with advantages and disadvantages | 5 |
| c) Discuss PreparedStatement with suitable example. | 4 |
- OR**
- | | |
|---|---|
| a) What is ResultSet? Why it is needed? Explain its any three methods. | 5 |
| b) Write down steps/statements to connect MySQL using JDBC in netbeans. | 5 |
| c) Write a note on: RMI architecture. | 4 |
- Q.-3 Attempt following. 14**
- | | |
|---|---|
| a) Define component? Explain JPasswordField with suitable example. | 5 |
| b) Define Session. Explain session tracking using HttpSession with example. | 5 |
| c) Explain HttpServletResponse interface with any two methods. | 4 |



OR

- a) Define DatabaseMetaData? Explain its methods with example. 5
- b) Write a note on : Servlet life cycle. 5
- c) What is HttpServlet? Explain HttpServletRequest interface with 3 methods. 4

SECTION – II

Q.-4 Attempt following. 7

Define following.

- a) Spring 1
- b) <jsp:forward> 1
- c) Scriptlet 1
- d) ORM 1
- e) <%=%> 1
- f) Struts 1
- g) Aspect 1

Q.-5 Attempt following. 14

- a) What is Hibernate? Explain Hibernate features and advantages. 5
- b) Briefly explain Java Beans properties 5
- c) Define MVC. Explain MVC Architecture. 4

OR

- a) Explain Hibernate configuration with mapping file. 5
- b) Write a note on: Spring IOC container. 5
- c) Describe Spring – MVC Framework. 4

Q.-6 Attempt following. 14

- a) Write a program to enter data in HTML file and insert record in Student [no, Name, class, sem, gender(m/f – option button), birthdate) table using JSP. 7
(Note: create Combo box for class and sem field in HTML, Database: MYSQL)
- b) Write a JSP program to enter display records of EMP table in tabular format. 7
[Note : use EMP (empno, name, dept, designation, salary) table available in MS-ACCESS]

OR

- a) Write a program to enter data in TextField and by pressing Insert Button, record should be inserted in Customer(cno, cname, addr, city, pincode) table. 7
Use **swing GUI JFrame** and **JDBC**. (Database : MS-Access)
- b) Write a JDBC program to enter rollno and delete record from student table. 7
(Database :MYSQL)

