

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**MCA (Sem.-2)**  
**ADVANCED JAVA**  
Subject Code : PGCA-1918  
M.Code : 79617  
Date of Examination : 17-12-2022

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

**SECTION-A**

**1) Write briefly :**

- a) List some of the databases supported by Hibernate.
- b) What is a Java expression?
- c) List the features of the object naming service in CORBA.
- d) What is the role of POJO files in hibernate framework?
- e) How duplicate form submission can be avoided in Struts framework?
- f) What is the difference between a generic servlet and HTTP servlet?
- g) What do you mean by JSP Standard Actions?
- h) What is the role of a JAR file in JavaBeans?
- i) What is the major difference between Socket programming and RMI programming?
- j) List the key applications of EJB container.

## SECTION-B

2. Compare and contrast JavaBeans and Enterprise Java Beans (EJB). Discuss the features of any four classes provided by JavaBeans API.
3. Discuss the workflow of Struts framework and illustrate the steps using a simple form design.
4. Explain the concept of Custom Tags and discuss the steps to develop a custom tag with an example.
5. What do you mean by remote method invocation (RMI)? Explain the steps to create an RMI application between client and server.

## SECTION-C

6. Discuss various types of session beans in Enterprise JavaBeans. List the advantages and disadvantages of each.
7. What do you mean by session tracking? Explain various mechanisms used for session tracking in servlets.
8. Explain the complete process of JSP development with the help of a suitable example.
9. **Write short notes on :**
  - a) Model-view-controller architecture
  - b) COBRA architecture.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**