

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2009

Computer Science

CS 204 ADVANCED JAVA PROGRAMMING

(2005 admissions)

Time : Three Hours

Maximum : 80 Marks

Part A*Answer any five questions.*

1. Explain the architecture of **JDBC** with suitable diagram. (8 marks)
2. Explain the role of stub and skeleton classes in **RMI**. (8 marks)
3. What is a **servlet** ? Differentiate between **servlet** and **CGI** script. (4 + 4 = 8 marks)
4. (a) Write a note on the uses of **JNDI**.
(b) Using **JNDI** write a program to set initial context to root directory. Perform a lookup on a given sub-directory and show the bindings of this directory. (2 + 6 = 8 marks)
5. Write a note on implementing session beans. (8 marks)
6. What is **MIME** ? Also explain the different **MIME** types. (3 + 5 = 8 marks)
7. Explain the given classes and their methods :
(a) **JCheckBox**. (b) **JTable**.
(c) **JTree**. (d) **JApplet**. (4 x 2 = 8 marks)

Part B*Attempt any four questions.*

8. Write down the procedure for connecting any database table as a back end of Java. (10 marks)
9. Explain **RMI** factory classes. Also give the advantages of **RMI** factory classes with suitable example. (4 + 6 = 10 marks)

Turn over

10. (a) Explain the Name Service JNDI.
(b) Explain (i) Naming Enumeration (ii) Binding.
- (5 + 5 = 10 marks)
11. Explain the EJB Architecture and its components.
(10 marks)
12. (a) Explain JTabbed Panes, JComboBox.
(b) Design an applet using Java swing to do the following. Let there be two text field inputs to which user can input number and third text field to show result. Let the user choose the radio buttons "SUM", "DIFFERENCE" to see the corresponding result in the third text field.
- (5 + 5 = 10 marks)⁵
13. (a) How will you generate a dynamic web page using JSP ?
(b) What are the different servlet classes ?
- (5 + 5 = 10 marks)