

M.C.A. Second Semester (Second Year) (CGS)
15529 : Client Server Computing : 4 MCA 2

P. Pages : 2

Time :

**AU - 3165**

Max. Marks :

- Notes :
1. Due credit will be given to neatness and adequate dimensions.
 2. Assume suitable data wherever necessary.
 3. Diagrams and chemical equations should be given wherever necessary.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) How to create TCP Sockets? Write example. Also explain what are different methods of socket class. 7

b) Explain with example TCP/IP server sockets. 6

OR

2. a) Explain. 7

- i) Proxy servers.
- ii) Internet Addressing.

b) Write a program for URL connection. 6

3. a) Explain with suitable diagram Type- III and type- IV JDBC drivers. 6

b) Create a database student containing table tbl- student having fields stud. id, name, address and contact. no. Insert five records in it and delete last record. 8

OR

4. a) Explain statement and Resultset classes with example. Write any two methods of each class. 6

b) Write and explain what are the steps involved in creating a JDBC application. Give example code at each step. 8

5. a) Explain with example a Well- formed XML documents. 6

b) Explain with example how to define simple and complex types in XML. 7

OR

6. a) What is XML? Also explain how to create a DTD in XML document. 6

b) Explain the following. 7

- i) Namespaces.
- ii) Schemas.
- iii) Validation of XML.

7. a) What is Servlet API? Also explain servlet requirements and writing of servlet. 8
b) Write a Servlet program that creates a simple HTML form contain fields username and password and submit button. 6

OR

8. a) What are the Cookies in Servlet. Write example that creates and destroys cookies from system. 8
b) Explain server side includes and request forwarding. 6
9. a) Explain with suitable diagram Architecture of RMI application. 6
b) How JDBC servlet is embedded with RMI? Give example. 7

OR -

10. a) What is object serialization? Consider student object containing stud-name, age and address. Write a program to serialize this object. 8
b) Explain Java RMI packages and classes. 5
11. a) What is JSP? How to write it? Also explain Request-time expressions. 7
b) Write a JSP program that illustrate the use of try/catch. 6

OR

12. a) What is Advanced JSP,? Also explain the conditional statements in it with example. 7
b) Explain the concept of Bean instances and bean serialization with example. 6
