

**SUBJECT CODE: 602**

**SUBJECT NAME: ADVANCED JAVA**

## Unit 1 : JDBC

✚ Answer the following : (Short Questions)

- 1) What is JDBC?
- 2) What is JDBC driver?
- 3) What is JDBC API component?
- 4) What are the Resultset?
- 5) Does the JDBC-ODBC Bridge support multiple concurrent open statements per connection?
- 6) What are the advantages of using PreparedStatement in Java?
- 7) How can we execute stored procedures?
- 8) Which JDBC driver is the fastest driver?
- 9) What is a JDBC driver and how many JDBC drivers are available?
- 10) What are the JDBC statements?

✚ Answer the following : (Long Questions)

- 1) Explain JDBC driver types?
- 2) What is difference between statement and prepared statement?
- 3) How do you create a connection object?
- 4) How do you handle SQL NULL values in Java?

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- 5) Explain the difference between RowSet vs. ResultSet in JDBC?
- 6) What is the difference between executing, executeQuery, executeUpdate in JDBC?
- 7) What is the return type of execute, executeQuery and executeUpdate?
- 8) Prepared Statements are faster. Why?
- 9) Tell me difference between setMaxRows(int) and SetFetchSize(int)?
- 10) Is it possible to connect to multiple databases? Using single statement can we update or extract data from two or three or many databases?

## Unit 2 : Networking

✚ Answer the following : (Short Questions)

- 1) What is TCP and UDP?
- 2) What is Local port?
- 3) How to find IP address in java?
- 4) What is java .net package?
- 5) What is MAC address?
- 6) What Are Some Advantages And Disadvantages Of Java Sockets?
- 7) What Is The Difference Between A Null Pointer And A Void Pointer?
- 8) What Is Encapsulation Technique?
- 9) How Do I Create An Output Stream?
- 10) How Do I Close Sockets?

✚ Answer the following : (Long Questions)

- 1) Explain socket programming with example?
- 2) Explain URL class?
- 3) How to use URLConnection class with example?
- 4) Explain datagram socket and datagram packet?
- 5) Explain Data Transfer Over Connected Sockets - Send() And Recv()?
- 6) Explain Connection Establishment By Server - Accept()?
- 7) How To Make A Socket A Listen-only Connection Endpoint - Listen()?
- 8) How Sockets Can Be Used To Write Client-server Applications Using A Connection-oriented Client-server Technique?
- 9) How To Disposing Of A Socket?
- 10) What This Function Recvfrom() Does?

## Unit 3 : JSP and SERVLET

+ Answer the following : (Short Questions)

- 1) What is the life-cycle of a servlet??
- 2) What are the life-cycle methods for a servlet?
- 3) What is difference between Get and Post method?
- 4) Can you call a jsp from the servlet?
- 5) Is it possible for one JSP to extend another java class if yes how?
- 6) What is called servlet container?
- 7) What is servlet mapping?
- 8) When Servlet is unloaded?
- 9) How to include static files in a JSP page?
- 10) Why is it that JComponent have add() and remove() methods but Component doesn't?

+ Answer the following : (Long Questions)

- 1) What are the advantages of JSP over Pure Servlets?
- 2) What are various attributes Of page directive??
- 3) What are the major tasks of servlets??
- 4) Explain servlet life cycle.?
- 5) How can we refresh automatically when new data has entered the database?
- 6) What are the features added in Servlet 2.5?
- 7) Explain JSP Technology?
- 8) Explain Implicit objects in JSP?
- 9) Differentiate between response.sendRedirect(url) and <jsp:forward page = ...> ?
- 10) Can constructor be used instead of init(), to initialize servlet?

## Unit 4 : Multithreading

+ Answer the following : (Short Questions)

- 1) Define thread?
- 2) What is the difference between thread and process?
- 3) What is the difference between start() and run() method in thread class?
- 4) What is the difference between runnable and callable in java?
- 5) How to implement thread in java?
- 6) What is multithreading?
- 7) What are the states associated with the thread?
- 8) What are the thread states?
- 9) What is deadlock?
- 10) What do you mean by thread starvation?

+ Answer the following : (Long Questions)

- 1) What is java memory model?
- 2) Explain multithreading with detail?
- 3) What are advantages of multithreading in java?
- 4) Is it possible to start thread twice? explain in detail?
- 5) What happens if we don't override a run method?
- 6) What is the main difference between wait () and sleep () method?
- 7) What is the use of Synchronized keyword?
- 8) Can It is possible to synchronize the constructor of a Java Class?
- 9) What are the main differences between notify and notifyAll in Java?
- 10) What are numerous ways in which a thread can enter the waiting state?

## Unit 5 : java Beans and RMI

+ Answer the following : (Short Questions)

- 1) What is java beans?
- 2) What is RMI?
- 3) What is purpose of introspection?
- 4) Write a simple java bean program?
- 5) What is the function of java.net.UnknownHostException?
- 6) What is the basic principle of RMI architecture?
- 7) What is the role of remote interface RMI ?
- 8) What is meant by binding in RMI?
- 9) What is role of stub in RMI?
- 10) What is Distributed Garbage Collection(DGB)?

+ Answer the following : (Long Questions)

- 1) What is method that is used by the RMI client to connect to remote RMI server?
- 2) Why are component architecture useful in java beans?
- 3) What is use of HTTP tunnelling in RMI?
- 4) What are the different terms that are used in RMI?
- 5) What are the layer of RMI architecture?
- 6) Explain the methods, rebind() and lookup() in Naming class?
- 7) What is unicast remote object?
- 8) What is RMI registry?
- 9) What are the two important TCP Socket classes?