



PROGRAMMING IN JAVA

Assignment 10

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

Which of the following package contains classes and interfaces for networking?

- a. java.io
- b. java.util
- c. java.net
- d. javax.swing

Correct Answer: c

Detailed Solution:

The java.net packages includes many classes and interfaces for network programming in Java.

QUESTION 2:

In the following, which are the protocol follows connection less service?

- a. TCP
- b. TCP/IP
- c. UDP
- d. HTTP

Correct Answer: c

Detailed Solution:

TCP is connection-oriented, IP and UDP are connection-less, TCP/IP is thus connection-less protocol. HTTP is a stateless and not actually connection less. In other words, (a)-(c) are transport layer protocols, whereas HTTP is an application layer protocol.

QUESTION 3:

Which of the following statement(s) is(are) NOT true?



- a. TCP is a reliable but slow.
- b. UDP is not reliable but fast.
- c. File Transfer Protocol (FTP) is a standard Internet protocol for transmitting files between computers on the Internet over TCP/IP connections.
- d. In HTTP, all communication between two computers are encrypted.

Correct Answer: d

Detailed Solution:

HTTPS is the secure version of HTTP, where all communications between two computers are encrypted. The secure communication is not true in case with HTTP.

QUESTION 4:

In the socket programming, for an IP address, which can be used to find the host name and IP address of a client/ server?

- a. The ServerSocket class
- b. The Socket class
- c. The InetAddress class
- d. The Connection interface

Correct Answer: c

Detailed Solution:

An object of the InetAddress class is used to obtain the IP address and the host name of a client/ server computer connected in a network.

QUESTION 5:

Which of the following statement(s) is(are) TRUE?

- a. With stream sockets, there is no need to establish any connection and data flows between the processes as continuous streams.
- b. Stream sockets are said to provide a connection-less service and it follows UDP protocol.
- c. Datagram sockets are said to provide a connection-oriented service and it follows TCP protocol.
- d. With datagram sockets there is no need to establish any connection and data flows between the processes as packets.

Correct Answer: d



Detailed Solution:

So far the stream sockets are concerned 1) a process establishes a connection to another process, 2) data flows between the processes are continuous streams, 3) provides a connection-oriented service and 4) TCP is used. On the other hand, with datagram sockets, with datagram sockets 1) individual packets of information are transmitted, 2) the transmission of packets follows a connection less service and 3) the UDP protocol is used.

QUESTION 6:

The Swing Component classes that are used in Encapsulates a mutually exclusive set of buttons?

- a. AbstractButton
- b. ButtonGroup
- c. JButton
- d. ImageIcon

Correct Answer: b

QUESTION 7:

Which of the following way is used to create a frame by creating the object of Frame class?

- a. inheritance
- b. association
- c. Both A & B
- d. None of the above

Correct Answer: b

Detailed Solution:

The way that is used to create a frame by creating the object of Frame class is by association.

QUESTION 8:

Once a JDBC driver has been registered, which of the following method is used to make a database connection?

- a. getConnection(String url, String userID, String password)
- b. setConnection(String url, String userID, String password)



- c. Connect(String url, String userID, String password)
- d. Any one of the above.

Correct Answer: a

Detailed Solution:

The `getConnection(String url, String userID, String password)` method is used to make the database connection.

QUESTION 9:

Which of the following best describes about JDBC?

- a. JDBC works like a bridge connecting a Java application to a RDBMS, execute SQL commands and return results to the application.
- b. JDBC is a software component, which is both network and database independent.
- c. JDBC should be installed in the same machine from where the Java application will run.
- d. JDBC should be installed in the same server that of the database.

Correct Answer: a

Detailed Solution:

The JDBC driver for different databases is different. But, as an end-user, we don't have to bother about their implementation. The networking is also not an issue for the users. Further, JDBC can be installed anywhere in between the client and server.

QUESTION 10:

Which of these is a protocol for breaking and sending packets to an address across a network?

- a. TCP/IP
- b. DNS
- c. Socket
- d. Proxy Server

Correct Answer: a

Detailed Solution:



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TCP/IP is the protocol that breaks the packets and sends them in a network channel.

*****END*****