PROGRAMMING IN JAVA

Assignment10

TYPE OF QUESTION: MCQ

Number of questions: 10   **Total mark: 10 × 1 = 10**

QUESTION 1:

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

    a. URL is the acronym for Uniform Resource Locator.
    b. A URL takes the form of a string that describes how to find a resource on the Internet.
    c. URLs have two main components: the protocol needed to access the resource and the location of the resource.
    d. The URL class is present in the java.io package.

Correct Answer: d

Detailed Solution:
The URL class is present in the java.net package.

QUESTION 2:

Consider the following program:

```java
import java.net.*;
import java.io.*;

public class Question {
    public static void main(String[] args) throws Exception {

     URL aURL = new URL("http://nptel.com:80/docs/java/tutorial"
                            +index.html?name=networking#connection");

        System.out.println("authority = " + aURL.getAuthority());
        System.out.println("host = " + aURL.getHost());

    }
}
```

Which of the following is/are valid output(s) from the above program?

   a. authority = nptel.com:80
   b. host = nptel.com
   c. authority = nptel.com
   d. host = nptel.com:80

Correct Answer: a,b

Detailed Solution:

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QUESTION 3:

Consider the following program:

```java
import java.net.*;
import java.io.*;

public class Question {
    public static void main(String[] args) throws Exception {

     URL aURL = new URL("http://nptel.com:80/docs/java/tutorial"
                             +index.html?name=networking#connection");

        System.out.println("query = " + aURL.getQuery());
        System.out.println("ref = " + aURL.getRef());
    }
}
```

Which of the following is/are valid output(s) from the above program?

a. query = name=networking
b. query = name=networking#connection
c. ref=connection
d. ref=/docs/java/tutorial/index.html?name=networking

Correct Answer: a, c

Detailed Solution:
Using getFile().
filename=/docs/java/tutorial/index.html?name=networking

QUESTION 4:

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 5:

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.

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QUESTION 6:

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

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QUESTION 7:

In the following URL, identify the protocol identifier?

https://nptel.ac.in:8080/course.php

a. https
b. nptel.ac.in
c. //nptel.ac.in:80/course.php
d. 8080

Correct Answer: a

Detailed Solution:
Here, https is the protocol for communication between two communication. The option (b) is the identity of the server, where course.php can be found. (c) is called resource name and 80 is the port number, that is, the address for a logical connection so that a cline program can connect to the server program.

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QUESTION 8:

Which of the following statement(s) is/are true?

a. isLoopback(): it indicates if the network interface is a loopback interface.
b. isPointToPoint(): it indicates if the interface is a point-to-point interface.
c. isVirtual(): it indicates if the interface is a virtual interface.
d. isUP() : it indicates the interface is running.

Correct Answer: a,b,c,d

Detailed Solution:

All options are correct.

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QUESTION 9:

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.

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QUESTION 10:

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.

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