



PROGRAMMING IN JAVA

Assignment10

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

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QUESTION 1:

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

- a. TCP is not reliable.
- b. UDP is not reliable.
- c. TCP is fast and UDP is slow.
- d. In HTTPS, all communication between two computers are encrypted.

Correct Answer: b, d

Detailed Solution:

TCP is a reliable but slow. HTTPS is the secure version of HTTP, where all communications between two computers are encrypted.

QUESTION 2:

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

- a. DatagramSocket is a UDP endpoint API .
- b. DatagramSocket is a TCP server API .
- c. ServerSocket is a TCP server API.
- d. ServerSocket is a TCP client API.

Correct Answer: a,c



Detailed Solution:

ServerSocket is a TCP server API, and will typically accept connections from client sockets. DatagramSocket is a UDP endpoint API and is used to send and receive datagram packets.

QUESTION 3:

Which of the following is/are interface(s) present in java.net package?

- a. InetAddress
- b. URLConnection
- c. SocketOptions
- d. HttpURLConnection

Correct Answer: c

Detailed Solution:

SocketOptions is an interface in java.net package.

QUESTION 4:

Which of the following statement(s) is/are 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.net package.

Correct Answer: a,b,c,d

Detailed Solution:

All statements are valid.



QUESTION 5:

In the following URL, identify the Resource name?

<https://nptel.ac.in>

- a. https
- b. nptel.ac.in
- c. ac.in
- d. https://nptel.ac.in

Correct Answer: b

Detailed Solution:

Resource name is nptel.ac.in.

QUESTION 6:

Which of the following is/are application layer protocol(s)?

- a. TCP
- b. UDP
- c. HTTP
- d. FTP

Correct Answer: c,d

Detailed Solution:

TCP,UDP are transport layer protocols.

QUESTION 7:

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 8:

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

- a. Addresses belongs to a Low-Level API.
- b. Sockets belong to High-Level API.
- c. URIs and URLs are Low-Level API.
- d. Interfaces are High-Level API.

Correct Answer: a

Detailed Solution:

The java.net package can be roughly divided in two sections:

- A *Low Level API*, which deals with the following abstractions:
 - *Addresses*, which are networking identifiers, like IP addresses.
 - *Sockets*, which are basic bidirectional data communication mechanisms.
 - *Interfaces*, which describe network interfaces.
- A *High Level API*, which deals with the following abstractions:
 - *URIs*, which represent Universal Resource Identifiers.
 - *URLs*, which represent Universal Resource Locators.
 - *Connections*, which represents connections to the resource pointed to by *URLs*.

QUESTION 9:

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

- a. DatagramSocket implements Object.
- b. DatagramSocket implements Closeable.
- c. DatagramSocket extends Object.
- d. DatagramSocket extends Closeable.
- e. DatagramSocket extends Object implements Closeable

Correct Answer: e

Detailed Solution:



public class **DatagramSocket** extends *Object* implements *Closeable* is the class that represents a socket for sending and receiving datagram packets.

QUESTION 10:

Which of the following is/are application layer protocol(s)?

- a. TCP
- b. UDP
- c. ARP
- d. SMTP

Correct Answer: d

Detailed Solution:

TCP, UDP are transport layer protocols. ARP is a Network - IP layer protocol. SMTP is Application layer protocol.

*****END*****