



PROGRAMMING IN JAVA

Assignment10

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

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

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

Correct Answer: d

Detailed Solution:

TCP is a reliable but slow. UDP is not reliable but comparatively fast. 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 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 3:

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

- a. InterfaceAddress
- b. FileNameMap
- c. DatagramPacket
- d. DatagramSocket

Correct Answer: b

Detailed Solution:

FileNameMap is an interface in java.net package and the other options are classes from the same package.

QUESTION 4:

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*.
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QUESTION 5:

In context of the following URL, identify the correct option.

<https://nptel.ac.in>

- a. There is no protocol provided in the above link.
- b. The website provides a secure connection.
- c. The given link is incomplete and hence cannot open a website.
- d. The [ac.in](#) refers to the website path.

Correct Answer: b

Detailed Solution:

Resource name is nptel.ac.in. The protocol used is https and hence provides a secure connection to the website. The link is complete in all aspects and hence can open a website (*if hosted*). The [ac.in](#) portion of the website is top-level domain part and not a path.

QUESTION 6:

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.

QUESTION 7:

What is true about IP:PORT in the following options?

- a. Port number 21 is the default FTP port.
- b. Only port number is required for FTP connections and no IP is required.
- c. 127.0.0.1 and localhost are same.



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- d. There is no concept of PORT in IPv6.

Correct Answer: a, c

Detailed Solution:

Port number 21 is the default FTP port. For a FTP connection both the IP and the PORT is required. 127.0.0.1 is the loop-back IP address of a system, which is same as localhost domain. The concept of PORT in IPv6 is same as in IPv4 although there is some variation in the syntax.

QUESTION 8:

Which of the following is/are valid Data Definition Language (DDL) command(s)?

- a. SELECT
- b. INSERT
- c. UPDATE
- d. ALTER TABLE

Correct Answer: d

Detailed Solution:

ALTER TABLE is a Data Definition Language (DDL).

QUESTION 9:

In JDBC, all raw data types (including binary documents or images) should be read and uploaded to the database as an array of

- a. byte
- b. vector
- c. char
- d. file

Correct Answer: a

Detailed Solution:

All data types should be read and uploaded to the database as an array of bytes.

QUESTION 10:



The package, which is required to be imported for the JDBC programming?

- a. java.net
- b. java.lang
- c. java.io
- d. java.sql

Correct Answer: d

Detailed Solution:

All classes and interfaces related to JDBC are defined in java.sql package.

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