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CS610 QUIZ 1 SOLVED

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1. Mapping between a protocol address and a hardware address is called _____.

- a) Segmentation
- b) Hashing
- c) Address Resolution**
- d) Fragmentation

2. ____ protocols of TCP/IP layering model specify how to organize data into frame and how a computer transmits frames over a network.

- a) Session
- b) Network interface layer**
- c) Internet Layer
- d) Transport Layer

3. In Closed-form computation, the protocol address assigned to a computer is chosen carefully so that computer's hardware address can be computed from the protocol address using basic Boolean and operations.

- a) Arithmetic**

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- b) XOR
- c) Shift
- d) XNOR

4. As the Internet grew, the original Classful addressing scheme became a limitation. The IP address space was being exhausted because all networks had to choose one of _____ possible sizes.

a) Three

- b) two
- c) four
- d) five

5. Dotted decimal notation is a syntactic form the IP software uses to express ____ binary values when interacting with humans.

- a) 8-bit
- b) 16-bit
- c) 32-bit**
- d) 64-bit

6. ____ protocols of TCP/IP layering model specify how to ensure reliable transfer.

- a) Physical Layer
- b) Network Interface Layer

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c) Internet Layer

d) Transport Layer

7. In the IP address, _____ identifies an individual computer on the network.

a) Prefix

b) Suffix

c) Mux

d) Demux

8. Internet protocol (IP) address version 4 is comprised of _____ bits.

a) 48

b) 32

c) 24

d) 128

9. A separate table is used for each physical network.

a) bit-binding

b) Checksum

c) address-binding

d) CRC

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10. Inside a computer, each address mask is stored as a ___ bit value.

- a) 48
- b) 64
- c) 16
- d) 32**

11. Dotted decimal represents each octet in ___ and uses a dot to separate octets.

- a) binary
- b) decimal**
- c) hexadecimal
- d) Octal

12. ___ of TCP/IP Protocol Suit specifies the format of packets sent across Internet as well as the mechanisms used to forward packets.

- a) Physical Layer
- b) Data Link Layer
- c) Internet Layer**
- d) Transport Layer

13. The IP class scheme does not divide the ___ address space into equal size class and the classes do not contain the same number of networks.

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a) 16-bit

b) 32-bit

c. 48-bit

d. 64-bit

14. ___ of TCP/IP protocol suit defines the basic characteristics of network hardware.

a) Physical Layer

b) Data Link Layer

c) Internet Layer

d) Transport Layer

15. The protocol address of the next hop must be ___ to an equivalent hardware address before a packet can be sent.

a) Encrypted

b) Decrypted

c) Translated

d) Segmented

16. Address Resolution Protocol is mostly used to bind a 32-bit IP address to a ___ Ethernet address.

a) 16-bit

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b) 48-bit

- c) 64-bit
- d) 128-bit

17. TCP/IP defines the term _____ to refer any computer system that connects to a network and runs applications for users.

a) Router

b) Host computer

- c) Bridge
- d) Switch

18. ___ are two standard implementations to improve computational efficiency.

a) Hashing and Direct indexing

- b) Segmentation and Fragmentation
- c) Queuing and Packetizing
- d) Indexing and Framing

19. In the IP address _____ identifies the physical network to which the computer is attached.

a) Prefix

b) Suffix

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c) Mux

d) Demux

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