Data Communication & Networking - Set 2.
MCQs.

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1) What is the hexadecimal equivalent of the "Ethernet address":
01011010 00010001 01010101 00011000
10101010 00001111
(a) 5A : 81 : BA : 81 : AA : OF
(b) 5A : 11 : 55 : 18 : AA : OF
(c) 5A : 88 : AA : 18 : 55 : FO
(d) 5A : 18 : 5A : 18 : 55 : OF

(2) In Ethernet addressing, if all the bits are 1s, the address is _____ ;
(a) Multicast   (b) broadcast
(c) Unicast   (d) none of the above.

(3) If an Ethernet destination address is 07:01:02:03:04:05, then this is a _____ address.
(a) broadcast   (b) Unicast   (c) multicast
(d) any of the above.

(4) Each station on an Ethernet network has a unique _____ address imprinted on its network interface card (NIC).
(a) 48 bit   (b) 32 bit   (c) 5 byte   (d) None

(5) Gigabit Ethernet has a data rate of _____ Mbps.
(a) 10,000   (b) 1000   (c) 100   (d) 10

(6) In the Ethernet frame, the _____ field contains error detection information:
(a) address   (b) Preamble   (c) CRC   (d) none

(7) 100Base-T4 uses _____ line coding.
(a) 8B6T   (b) Manchester   (c) MLT-3
(d) NRZ

(8) _____ uses long-wave 1310-nm single mode fiber:
(a) 10GBase-E   (b) 10GBase-S
(c) 10GBase-L   (d) none of above.

(9) _____ defines a protocol data unit (PDU) that is somewhat similar to HDLC:
(a) LLC (logical link control)   (b) LLU
(c) MAC   (d) none of above.

(10) _____ is the most widely used local area network protocol:
(a) Token Bus   (b) Ethernet
(c) Token Ring   (d) none of above

(11) In Ethernet addressing, if the least significant bit of the first byte is 1, the address is _____ .
(a) multicast   (b) broadcast
(c) Unicast   (d) none of above.

(12) Gigabit Ethernet access methods include _____ mode:
(a) full-duplex   (b) half-duplex
(c) both (a) & (b)   (d) none of above

(13) Standard Ethernet (10-Mbps) uses _____ encoding:
(a) AMI   (b) Manchester   (c) NRZ.
(d) different Manchester.

(14) If an Ethernet Destination address is 08:07:06:05:44:33 then this is a _____ address:
(a) broadcast   (b) Unicast
(c) Multicast   (d) any of above.

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