Q.1 Which of the following is/are correct? [MSQ]

A. In unicast communication transmitting a packet from one computer to another computer in different class is possible.

B. In unicast communication transmitting a packet from one computer to another computer in same class is possible.
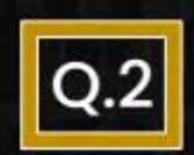
C. Transmitting a packet from one computer to all computer is called multicast communication.

D. Transmitting a packet from one computer to many computer is called broadcast communication.

(A, B)

Q.2 Which of the following is true? [MCQ] (P.W)

A. Network ID is same for each class in IP address.

B. Direct broadcast address (DBA) is same for each class.

C. Limited broadcast address (LBA) is same for class A, B and C.

D. Limited broadcast address (LBA) for class D is 255.255.255.255.

DBA

ClassA - N.255.255.255

ClassB - N.N.255.255

class-c - N.N.N.255

LBA

255.255.255.255

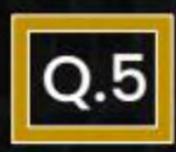**Q.3** Consider a host with IP address 192.11.0.248, how many network ID bits are allocated for given IP? __24__. [NAT]

$$Class-C(192-223)$$

$$\underline{class-C}$$

$$\frac{NID}{24} \quad \frac{HID}{8}$$

Q.4 Consider the following statements: [NAT] (P/W)

(T) S_1: ARP request is always broadcast with in the network.

(T) S_2: ARP reply is unicasting.

(T) S_3: MAC address is of 6 bytes. $6 \times 8 = 42 \, bit$

(T) S_4: With the help of port number process can be found within the host.

Total number of INCORRECT statements is/are ___0___.

ARP request

	IP Add	MAC Add
	10.32.92.5	?

ARP request is Broadcasting
ARP reply is unicasting

Q.5

Consider a host with IP address 190.11.25.0 which of the following will be a valid network ID? [MCQ]

(A.) 190.11.255.255

(B.) 190.0.0.0

(C.) ✓ 190.11.0.0

(D.) None of these

$$IP\ Add = \underbrace{190 \cdot 11}_{NID} \cdot \underbrace{25 \cdot 0}_{HID} \quad (class\text{-}B)$$

$$NID = 190 \cdot 11 \cdot 0 \cdot 0$$

Q.6 Consider the IP address 224.224.92.69 which of following will be direct broadcast address for the given host IP?
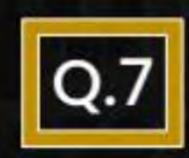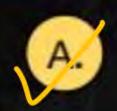
A. 224.224.92.255

B. 224.244.255.225

C. 255.255.255.255

D. None of these

IP Add = $\underset{\downarrow}{224}$. 224 . 92 . 69

class-D (224-239)

① No. Network-id & No Host-id in class-D

② class-D is reserved for multicasting

Q.7 Consider an IP address 167.0.64.68. Which of the following option is/are correct for given IP address?

[MSQ]

A. Limited broadcast address for the given IP address is 255.255.255.255.

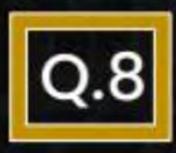B. Direct broadcast address for given IP address is 167.255.255.255.

C. Network ID for given IP address is 167.0.0.0.

D. Limited broadcast address for given IP is same as direct broadcast address.

(A, c)

DBA : 167.0.255.255

NID : 167.0.0.0

$\dfrac{167 \cdot 0}{\underset{\text{NID}}{b}} \cdot \dfrac{64 \cdot 68}{\text{HID}}$

class-B (128-191)

Class-B

$\dfrac{\text{NID}}{16} \quad \dfrac{\text{HID}}{16}$

Q.8 The correct dotted decimal notation format for given hexadecimal notation (HDN) 162184AF is

A. 175.132.33.22

B. 22.33.132.174

C. 22.33.132.175

D. None of these

$(16)_{16}$ $(21)_{16}$ $(84)_{16}$ $(AF)_{16}$

$1*16+6$ $2*16+1$ $8*16+4$ $16*16+15$

22   33   132   175

22.33.132.175

THANK YOU GW SOLDIERS !