

TOPIC NAME : _____

DAY: _____

TIME: _____

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④

$$2^{11} = 2048$$

∴ 11 host bits

$$\text{Subnet} = 32 - 11$$

$$= 21$$

$$\therefore 100.32.0.0/21$$

⑤

1000 Hosts

$$2^{10} = 1024$$

$$\text{usable host} = 1024 - 2$$

$$= 1022$$

$$\text{Subnet} = 32 - 10$$

$$= 22$$

$$\therefore 100.32.11.255/22$$

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⑥

$$\text{host} = 512$$

$$2^9 = 512$$

$$\therefore \text{host bits} = 9$$

$$\begin{aligned} \text{subnet} &= 32 - 9 \\ &= 23 \end{aligned}$$

$$2^{10} = 1024$$

$$\begin{aligned} \text{subnet} &= 32 - 10 \\ &= 22 \end{aligned}$$

$$1 - 1001 = \therefore 100.32.12.1/22$$

$$2201 =$$

$$\text{usable host} = 512 - 2 = 510$$

did host 11.

$$11 - 22 = 22012$$

$$12 =$$

$$12 / 0.0.22.001 \therefore$$

22012 0001

$$1001 = 1010$$

$$01 - 22 = 22012$$

$$22 =$$

$$22 / 220.11.22.001 \therefore$$

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9

$$2^3 = 8$$

$$\text{subnet} = 32 - 3 \\ = 29$$

$$\therefore 100.32.16.0/29$$

$$2000 \text{ --- } 11 \text{ --- } 2048 \text{ --- } 2046 \text{ --- } /21 \text{ --- } 255.255.248.0$$

$$1000 \text{ --- } 10 \text{ --- } 1024 \text{ --- } 1022 \text{ --- } /22 \text{ --- } 255.255.252.0$$

$$512 \text{ --- } 10 \text{ --- } 1024 \text{ --- } 1022 \text{ --- } /22 \text{ --- } 255.255.252.0$$

$$3 \text{ --- } 3 \text{ --- } 8 \text{ --- } 6 \text{ --- } /29 \text{ --- } 255.255.255.248$$

$$2 \text{ --- } 2 \text{ --- } 4 \text{ --- } 2 \text{ --- } /30 \text{ --- } 255.255.255.252$$