

TOPIC NAME : _____

DAY : _____

TIME : _____

DATE : _____

24 object + HTML base file = 25 object

RTT = 15 ms

HTTP = 30 ms

∴ total time = 15 + 30
= 45 ms

∴ total RTT = 25 × 45

= 1125 ms

(b)

$$\text{transmission time per object} = \frac{\text{file size}}{\text{Server Speed}}$$

$$= \frac{40}{500}$$

$$= 0.08 \text{ sec}$$

$$= 80 \text{ ms}$$

$$\therefore \text{total transmission time} = 25 \times 80$$

$$= 2000 \text{ ms}$$

(c)

$$\text{TCP} = 15 \text{ ms}$$

$$\text{HTTP} = 30 \text{ ms}$$

$$\text{file transmission} = 80 \text{ ms}$$

$$\therefore \text{total per object} = 15 + 30 + 80$$

$$= 125 \text{ ms}$$

$$\therefore \text{total 25 object} = 25 \times 125$$

$$= 3125 \text{ ms}$$