a) Probability that school is closed due to state's school closure notice?

$$P(+sc \mid +s) = \frac{P(+sc, +s)}{P(+s)}$$

$$= \frac{1}{P(+s)} \; P(+sc, +s, T, P, C)$$

$$= \frac{1}{P(+s)} \; P(+s)\, P(+sc \mid +s, C)\, P(T)\, P(P)\, P(C \mid T, P)$$

$$= P(+sc \mid +s, C)\, P(T)\, P(P)\, P(C \mid T, P)$$

$$= 0.98 \times 0.01 \times 0.04 \times 0.98$$

$$= 0.00038416.$$

b) $P(+sc \mid +c, +T, +P) = \frac{P(+sc, +c, +T, +P)}{P(+c, +T, +P)}$

$$= \frac{P(s, +sc, +c, +T, +P)}{P(+c, +T, +P)} = \frac{P(s)\, P(+sc \mid +c, s)\, P(+T)\, P(+P)}{P(+c, +T, +P)}$$

$P(+c \mid +T, +P)$

$$= \frac{P(s)\, P(+sc \mid s, +c)\, P(+T)\, P(+P)\, P(+c, +T, +P)}{P(+c, +T, +P)\, P(+T)\, P(+P)}$$

$$= P(s)\, P(+sc \mid s, +c)$$

$$= 0.001 \times 0.98$$

$$= 0.00098$$