

Answer 1. 1)

$$TP1 = 95$$

$$TP2 = 0$$

$$FP1 = 10$$

$$FP2 = 13$$

$$\text{Macro avg precision} = ((95/105) + 0)/2 = 0.452$$

Answer 1.2.)

$$35/35 = 1$$

Answer 2.

Q2.
$$F = \frac{(P^2 + R^2)}{P + R} = \frac{2 \times PR}{P + R}$$

$$P = \frac{26}{26 + 4} = \frac{26}{30}$$
$$R = \frac{26}{26 + 5} = \frac{26}{31}$$
$$F = \frac{2 \times \frac{26}{30} \times \frac{26}{31}}{\frac{26}{30} + \frac{26}{31}} = \frac{1.4532}{1.2053} = 1.2052$$

Answer 3. $P(A) = 0.01$

$$P(\sim A) = 0.99$$

$$P(X/A) = 0.9$$

$$P(X/\sim A) = 0.08$$

$$(0.9 \times 0.01) / ((0.9 \times 0.01) + (0.08 \times 0.99)) = 0.10$$

$$= 10\%$$