

$$1) P(+ve) = (0.98 \times 0.005) + (0.10 \times 0.995) \\ = \boxed{0.1044}$$

$$2) P(\text{diagnose correctly}) = \boxed{0.98} \rightarrow \text{given in question}$$

$$3) P(\text{identify a sufferer correctly}) = \boxed{0.9}$$

$$4) \text{Misclassify} = 1 - (0.98 \times 0.005 + 0.90 \times 0.995) \\ = \boxed{0.996}$$