=)
$$5 \times 10^{6} + (85)(9)(10^{7}) + (99)(9999)(10^{7}) + (99999)(10^{7}) + (9999)(10^{7}) +$$

=)
$$P(\frac{A}{G_1e}) P(G_1) + P(\frac{A}{NG_1e}) P(NG_1)$$

=) $(0.5) (0.1) + (0.85) (0.9)$
=) 0.815
 $P(\frac{A}{A}) = P(\frac{A}{E}) P(E)$ $P(NE) = P(\frac{A}{A}) = P(\frac{A}{NE})$
= $\frac{6.815}{0.0991G159} (1.04) = \frac{6.815}{0.0991G159}$
= 0.900822
Substituting in equation—(1)
 $(0.8) (0.90822) + (0.1)$
 $P(NE) = P(\frac{A}{NE}) P(NE)$
 $P(A) = P(\frac{A}{NE}) P(NE)$
 $P(A) = P(\frac{A}{NE}) P(NE)$
= $P(\frac{A}{NE}) P(NE) + P(\frac{A}{NE}) P(NE)$
= $P(\frac{A}{NE}) P(NE) + P(\frac{A}{NE}) P(NE)$

$$= (0.99)(0.1) + (164)(0.9)$$

$$= 0.09909$$

$$P(NE) = 0.09909 \times 0.9999$$

$$= 0.09916159$$

$$= 0.99918 || Am$$

$$P(S) P(E) + P(S) P(NE)$$

$$= 0.99918 || Am$$

$$= (0.8)(0.00622) + (0.1)(0.99918)$$

$$= 0.0006576 + 0.099918 =$$

$$= 0.1005756$$