11. $P(H) = 0.8$

$P(T) = 0.2$

Entropy $H(X) = -\sum_{i=1}^{n} P(x_i) \log_2 P(x_i)$

$$H(x) = -[P(H) \log_2 P(H) + P(T) \log_2 P(T)]$$

$$= -[0.8 \log_2 0.8 + 0.2 \log_2 0.2]$$

$$= -[(0.8 \times (-3.219)) + (0.2 \times (-2.3219))]$$

$$= -[-0.95752 - 0.46438]$$

$$= -[-0.7219]$$

$$\boxed{H(x) = 0.7219}$$