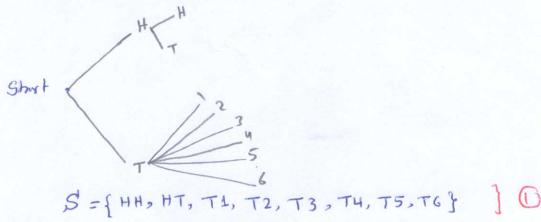
Question 5: (5 Points)

An experiment consists of flipping a coin and then flipping it a second time if a head occurs. If a tail occurs on the first flip, then a die is tossed once. (Use: H for head, T for tail)

a. Write the sample space. (1 point)



b. Write the elements of the following events: (1 points each)
E: the number appeared on the die is at least two,
F: a head occur or the number is odd.

$$E = \{ T2, T3, T4, T5, T6 \}$$
 $\{ G \}$ $\{ F = \{ HH, HT, T1, T3, T5 \} \}$

c. Do the events E and F are mutually exclusive? Why?(2 points)

ENF =
$$\{T3, T5\}$$
 $\}$ \bigcirc
ENF $\neq \Phi \implies \exists$ and \exists are not mutually exclusive \exists \bigcirc