Question 2 8.1 Solution:

Let e = [E], s = [s], a = [ES], e = [E], and p = [P] where e, s a, e and p denotes

Let
$$e = [E]$$
, $s = [s]$, $a = [ES]$, $e = [E]$, and $p = E$ the active mass of corresponding substance.

$$\frac{de}{dt} = (k_2 + k_3)a - k_1es$$

$$\frac{ds}{dt} = k_2a - k_1es$$

$$\frac{da}{dt} = k_1es - (k_2 + k_3)a$$

$$\frac{dp}{dt} = k_3a$$