Python Code (Can be run in opensource python 2.7.5)

import math

>>> b1=4.5

>>> rt=12

>>> It=2

>>> St=49

>>> Nt=1380

>>> b1\*rt\*It\*St/Nt

3.8347826086956522

>>> A=3.8347

>>> B=10965

>>> Sin=432160

>>> Sout=338604

>>> St+Sin-Sout-A-B

82636.166

>>> ST=82636.166

>>> ST/100

826.36

>>>Rt=8

>>>G=10

>>>I=1

>>>Rt\*I+G

18

>>> V=14

>>> Et=159

>>> S=14

>>> G=0

>>> V\*E1+S-G\*S

2240

>>> Ein=119900

>>> Eout=1091

>>> Et=14000

>>> Et+Ein-Eout+A+B-V\*Et

19800

Note: Similarly, all other values are solved from this code for case A and case B considering the parameters mentioned in the manuscript