

Attendance Quiz for Lecture 16 of Dr. Z.'s Dynamical Models in Biology class

Name: (print!)

Email: (print!)

1. In the Linda Allen SIR model if

- Individuals are born susceptible with a birth rate $b = 0.1$ and die at the same rate
- Infected individuals recover at a rate of $c = 0.1$.

What ratio of the population will be infected if the **contact rate** a is

(i) $a = 0.1$

(ii) $a = 0.3$

(iii) $a = 0.5$

(iii) $a = 0.7$

(iv) $a = 1$

(v) $a = 2$

(vi) $a = 5$