1) Most of the updates have been given in previous part. $\Delta B = \Delta \delta = 2 \times 10^{-4}$ is used for Computation of numerical gradient The relevant plots have been attached. For problem formulation, refer provious part. Also, please consider my extended part 1 as I'm making up the extra writing in this part. Part 1 was made elaborate to maintain maintain continuity in explanation. Some of the details are relevant for this problem part dis All the plots are for India. The first one shows objective us iterations The second one shows actual and predicted S, I, R. We learnt the following values of Band & after training: B = 0-31 r = 0.05.

B is a parameter controlling how much the disease can be transmitted through exposure It is determined by hance of contact and probability of disease transmission. & expresses how much direage can be recovered in a specific pariod.



