BM5063 Mathematical Physiology and Systems Medicine

Exam 3

Instructions

1. In this exam, you can use one page of any handwritten material. Photocopies/prints/soft-copies are not allowed.

2. You are expected to answer these on your own. **Any reasonable signs of 'copying/plagiarism' will attract penalties.**

3. You have to provide answers within the space provided. No additional paper will be given.

Questions

1. Recall the glucagon problem from the last problem set. Extend the glucose-insulin model developed in class to incorporate the effect of glucagon. **(20)**

   Instructions

   (a) *Avoid unnecessary details and text, and give a concise answer.*
   (b) *You only have to provide the model equations and justification for terms.*
   (c) *You do not have to solve/analyze the system or identify fixed points.*