1. Which of the following networks are considered deep?

2. Your input is a tensor of shape 81 x 81 x 64, and you convolve it with 16 filters that are 5 x 5 each, using a stride of 2 and “valid” padding. What is the shape of the output tensor?

3. You are training the U-Net model on the unet data under default values of the most of hyperparameters, except for the batch_size, which you choose yourself. You perform 2 runs: one run using a single GPU, and the other using 4 GPUs. By how many fold faster does the code run when 4 GPUs are used? Make your estimate of the speedup based on the results of training with several epochs only.