1. Three images are shown in the figure: the scaling in each image is different and is normalized to the same maximum value. The imaging parameters are TR = 2000 ms, TE = 20 ms for one image, TR = 750 ms, TE = 80 ms for another, and TR = 2000 ms, TE = 80 ms for the final one.
   (I) Assign each image to the appropriate TR and TE values.
   (II) Based on your answer, do the ventricles have a higher or lower T1 value than brain tissue? What is the corresponding answer for T2?

2. A multi-slice spin-echo imaging sequence is run with the following parameters: a 256*256 data matrix, TR is 2 seconds, TE is 20 ms, and ten slices are acquired. How long does the MRI scan take to complete?