1. (3pts) Choose three features that are different between the photoreceptors. Describe the contrasting behavior for each of these features in the following table. (Features can possibly include what they respond to, where they are, what their connectivity patterns are, etc.)

<table>
<thead>
<tr>
<th>RODS</th>
<th>CONES</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td></td>
</tr>
</tbody>
</table>

2. (1pt) What is the processing arrangement in the visual system causing edges to appear to have more contrast than they actually do?
   a) lateral inhibition
   b) photoreceptor
   c) labeled-line
   d) transduction-pattern

3. (1pt) Which of the following is a valid order of visual processing?
   a) LGN \(\rightarrow\) V1 (in occipital lobe) \(\rightarrow\) thalamus
   b) retina \(\rightarrow\) superior colliculus \(\rightarrow\) LGN \(\rightarrow\) occipital lobe
   c) thalamus \(\rightarrow\) temporal lobe \(\rightarrow\) occipital lobe
   d) retina \(\rightarrow\) thalamus \(\rightarrow\) V1 (in occipital lobe) \(\rightarrow\) extrastriate cortex

4. (1pt) What are two types of cells in the processing stream between the photoreceptors and ganglion cells? (There actually are three possible answers.)

_______________________________ and _______________________________
5. (1pt) The general name for the type of receptive field configuration seen in ganglion cells and LGN cells is:
   a) surround-center
   b) on-off surround
   c) off-on surround
   d) center-surround

6. (1.5pts) Describe what a topographic map is and how it applies to the visual system?

7. (2pts) Which of the following applies to photoreceptors? (You can choose more than one response.)
   a) they are depolarized in the dark
   b) they are hyperpolarized in the dark
   c) they are metabotropic
   d) they work with graded potentials rather than action potentials

8. (0.5pts) True or False (circle one): The right eye detects information on the left side of space and the left eye detects information on the right side of space.