Ch. 11 Cell Signaling Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Provide an example of a way in which cells can send signals LOCALLY. Explain.
2. What is the difference between local regulators and hormones?
3. Outline what occurs in the 3 steps of cell signaling.
4. Explain how each of the following membrane receptors and discuss how it elicits a cellular response. Include steps in the signaling process. Choices: G-protein coupled receptors, receptor tyrosine kinases
5. What is the benefit of a transduction cascade rather than a single step transduction?
6. Explain how a signaling pathway can act as a transcription factor.
7. Explain how a scaffolding protein increases signaling efficiency.
8. What is apoptosis? Give an example of a consequence if apoptosis does not occur.