## **Cell to Cell Communication Quiz**

- 1. Which of the following is the correct order of events in signal transduction?
  - a. Receptor -> Chemical Signal -> Target Proteins -> Intracellular Proteins -> Cell Response
  - b. Chemical Signal -> Target Proteins-> Receptor -> Intracellular Proteins -> Cell Response
  - c. Chemical Signal -> Receptor -> Intracellular Proteins -> Target Proteins -> Cell Response
  - d. Chemical Signal -> Receptor -> Target Proteins -> Intracellular Proteins -> Cell Response
- 2. Which of the following types of chemical signals is secreted in the blood and travels long distances to its target.
  - a. Neurotransmitters
  - b. Cytokines
  - c. Hormones
  - d. Target Proteins
- 3. Which of the following is a characteristic of a receptor?
  - a. Speed
  - b. Specificity
  - c. Saturation
  - d. Competition
  - e. All except a
- 4. This type of extracellular receptor causes a transporter to open or close to allow particles through once a chemical signal binds.
  - a. G couple Protein
  - b. JAK Kinase
  - c. Tyrosine Kinase
  - d. Ligand Gated Ion Channel
- 5. An intracellular portion of this receptor phosphorylates intracellular Proteins.
  - a. G coupled Protein Receptor
  - b. Tyrosine Kinase
  - c. Ligand Gated Ion Channel
  - d. All of the following

6. Once A	denylyl cyclase is activated it
a.	
	Makes cAMP
	Phosphorylates intracellular proteins
	Causes a change in membrane potential
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7. IP3 doe	s which of the following?
a.	Opens Ca2+ doors on the Sarcoplasmic Reticulum
b.	Activates target proteins
c.	Both a and b
d.	None of the above
8 An inst	llin receptor is an example a receptor.
	Tyrosine Kinase
	G couple Protein
	Ligand Gated Ion Channel
	JAK Kinase
9. Most cy	tokine receptors are an example a receptor.
a.	Tyrosine Kinase
b.	G couple Protein
c.	Ligand Gated Ion Channel
d.	JAK Kinase
10. Beta a	drenergic receptors on cardiac contractile cells are an example a
	receptor.
a.	Tyrosine Kinase
b.	G couple Protein
	Ligand Gated Ion Channel
d.	JAK Kinase
11. Alpha	adrenergic receptors on cardiac contractile cells are an example a receptor.
a.	Tyrosine Kinase
b.	G couple Protein
c.	Ligand Gated Ion Channel
d.	JAK Kinase
12. This to	ype of receptor is involved in skeletal muscle contraction.
a.	Tyrosine Kinase
b.	G couple Protein
c.	Ligand Gated Ion Channel
d.	
J.	the second secon

## **MC Answers**

- 1. c
- 2. c
- 3. e
- 4. d
- 5. b
- 6. b
- 7. a
- 8. a
- 9. d
- 10. b
- 11. b
- 12. c