Endocrine System worksheet 1

Fill in the blank:

1) Compared to the Nervous system, the Endocrine system is a **communication** system.

2) When a cell is using endocrine signaling, the hormone has to **travel** in the blood.

3) In order for a hormone to interact with a cell, the cell must have a high affinity for the hormone.

Multiple choice:

1) The endocrine system sends:
   a) Chemical signals
   b) Electrical signals
   c) Chemical and electrical signals
   d) Neither Chemical or electric signals

2) To be a hormone, a chemical must have all of the following characteristics, but what?
   a) It is carried in the blood
   b) It has to travel to a distant tissue
   c) It has to be produced in the hypothalamus
   d) It has to cause a change in cellular physiology

3) What is the definition of autocrine?
   a) Self signal
   b) Adjacent signaling
   c) Distance signaling
   d) Cell death

4) Which is an action performed by hormones?
   a) Change membrane permeability
   b) Stimulate the synthesis of a protein or enzyme
   c) Induce secretion
   d) All of the above

Short answer:

1) Briefly explain the difference between EXOcrine and ENDOcrine.
2) What are the three signaling types? How are they different?

3) What are the three base structures of a hormone?

4) What are all the functions of a hormone we discussed in class?