The Digestive System: Control of the Digestive System

- 1. List the primary two mechanisms that control the motility and secretion of the digestive system.
 - a. _____
 - b. _____
- 2. List the three phases of digestive system processes
 - a. _____.
 - b._____
 - c._____
- 3. The ______ nerve triggers the responses during the cephalic phase of digestion.
- 4. The stimulation of ______ receptors triggers the gastric phase of digestion.
- 5. List the 4 main responses during the intestinal phase of digestion
 - a. _____. b. _____. c. _____.
 - d. .
- 6. The small intestine typically_____.
 - a. slows gastric emptying
 - b. accelerates gastric emptying
 - c. has no effect on gastric emptying

7. The ______ and _____ nerves carry parasympathetic impulses to the enteric

nervous system.

8. Sympathetic NS innervation of the digestive tract is via______ fibers.

- c. preganglionic
- d. postganglionic

9. The ______ and _____ plexuses are the two components of the enteric nervous system.

10. Digestive system reflexes that involve the brain are called ______.

11. A meal consisting largely of fatty foods will take ______ to digest than a meal consisting of mainly of starchy foods.

a. a longer time

b. a shorter time

c. the same time

12. All preganglionic ANS fibers release ______ while only postganglionic fibers of the sympathetic division release ______.

13. Which of the following neurotransmitters stimulates smooth muscle contraction in the digestive tract?

a. VIP

b. norepinephrine

c. NO

d. ACh

14. ______ slow intestinal motility and cause the pyloric sphincter to contract.

15. List 5 peptide hormones of the GI tract:

a. _____ b. _____ c. _____ d. _____

16. List four functions of duodenal CCK.

a.	
b.	
c.	
d.	

17. Secretin stimulates gastric HCl secretion.

a. True

b. False

18. GIP stimulates the pancreas to secrete_____.

- 19. ______ stimulates motility of the intestine, thereby moving its contents toward the terminal ileum.
- 20. _____ occurs when the combined action of two hormones is greater than the sum of their individual

effects.