

## **Digestive System**

### **Required:**

1. Identify and describe the functions of the major parts of the alimentary canal.
2. Identify and describe the functions of the accessory organs of the digestive system.
3. Describe the basic structure and function of the four layers of the wall of the alimentary canal.
4. Distinguish between mixing movements and propelling movements.
5. Describe the general effects of parasympathetic and sympathetic impulses on the alimentary canal.
6. Discuss the parts and functions of the mouth.
7. Describe the components and digestive functions of saliva.
8. Describe the mechanism of swallowing.
9. Describe the structure and functions of the stomach.
10. List the components of gastric juice, and explain the function of each component.
11. Explain how gastric secretions are regulated.
12. Describe the functions of the pancreas.
13. List the enzymes found in pancreatic juice, and explain the function of each enzyme.
14. Explain how pancreatic secretions are regulated.
15. List and discuss the major functions of the liver.
16. Describe the composition of bile.
17. Describe the function of the gallbladder.
18. Describe the function of cholecystokinin.
19. Describe the function of secretin.

20. Explain the functions of bile salts.
21. Generally describe the functions of the small intestine.
22. Name the enzymes of the intestinal mucosa, and explain the function of each enzyme.
23. List the structures that increase the surface area of the small intestine.
24. Summarize the digestion of proteins
25. Summarize the process of fat digestion.
26. Summarize the digestion of starches.
27. Summarize how each major type of digestive product (i.e. fats; amino acids; sugars) is absorbed.
28. Describe the normal movements of the small intestine.
29. Relate the development of diarrhea to absorption of water and intestinal movements.
30. Describe the parts of the large intestine.
31. Explain the general functions of the large intestine.
32. Describe the defecation reflex.