

UNIT 5 STUDY QUESTIONS

1. List the organs of the gastrointestinal tract and the digestive accessory organs.
2. Discuss the layers of the gastrointestinal tract including the nerve plexuses.
3. List and define the digestive processes.
4. Discuss segmentation and peristalsis.
5. Define digestion and discuss the various enzymes involved in the digestion of the biomolecules.
6. Discuss lactose intolerance.
7. Describe the role of bile in fat emulsification.
8. Discuss sub-lingual and gastric absorption. Include medicines absorbed.
9. Discuss the absorption of amino acids, glucose, and fatty acids.
10. Discuss HDL and LDL.
11. Explain the type of receptors used in the regulation of digestive activity.
12. Describe the cephalic, gastric, and intestinal phases of regulatory control.
13. Describe the enteric nervous system.
14. Discuss the integrating areas of digestive regulation and the short and long pathways.
15. Discuss short wave and actions potentials within smooth muscle.
16. Discuss how nerves and hormones can influence the strength of motility.
17. Discuss the functions of the oral cavity and salivary glands.
18. Discuss the swallowing reflex.
19. Describe the functions of the stomach.
20. Discuss the regulation over gastric secretions and gastric motility.
21. Discuss the functions of the small intestine, pancreas, liver, gall bladder and large intestine.
22. Discuss the control of secretion and motility within the small intestine.
23. Discuss motility in the large intestine.
24. Define and discuss peptic ulcers.
25. Discuss the five processes involved in producing offspring by the reproductive systems.
26. Discuss the factors involved in sex differentiation.
27. Discuss hormonal control over spermatogenesis.
28. State the functions of the epididymis, ductus (vas) deferens, and accessory organs in the male.

29. Discuss the actions of testosterone in the male.
30. Explain the structural changes occurring in the ovary and uterus during the menstrual cycle.
31. Discuss the hormonal control over the female menstrual cycle.
32. Discuss egg and sperm motility in the uterine tube, fertilization of the egg, and implantation in the uterine wall.
33. State the areas of estrogen and progesterone production during pregnancy and state possible problems during the second and third months of pregnancy.
34. State the importance of human chorionic gonadotropin, HCG, during pregnancy.
35. Discuss the factors that influence parturition.
36. Discuss the factors that influence the release of oxytocin and prolactin and state their actions in the body.
37. Discuss the actions of estrogen and progesterone in the female.