Biology 4
Sample Exam Questions
Chapter 18 – Endocrine System

1. The chemical groups into which hormones can be divided include
   a. carbohydrate derivatives
   b. amino acids and peptides
   c. steroids
   d. carbohydrates and sugars
   e. b and c from above are correct

2. Which hormone targets smooth muscle cells in the uterus and causes contractions necessary for labor and childbirth?
   a. oxytocin
   b. FSH
   c. LH
   d. ACTH
   e. None of the above

3. Which hormone stimulates egg development and the secretion of estrogens by ovarian cells?
   a. follicle-stimulating hormone
   b. thyroid-stimulating hormone
   c. antidiuretic hormone
   d. luteinizing hormone
   e. oxytocin

4. The release of steroid hormones by the adrenal gland is stimulated by the hormone
   a. oxytocin
   b. adrenocorticotropic hormone
   c. follicle-stimulating hormone
   d. thyroxin
   e. prolactin

5. What are the target cells of the thymosins?
   a. bone, kidneys and intestines
   b. red blood cells
   c. skeletal muscle cells
   d. liver and spleen cells
   e. none of the above

6. The zona fasciculata of the adrenal cortex produces hormones collectively known as
   a. glucocorticoids
   b. mineralocorticoids
   c. androgens
   d. erythropoietin
   e. epinephrine
7. A hormone that increases the rate of glucose breakdown and release by the liver is
   a. insulin
   b. glycogen
   c. glucagon
   d. glucocorticoids
   e. aldosterone

8. The hormone that acts to oppose the effects of calcitonin is
   a. secreted by the parathyroid glands
   b. triiodothyronine
   c. parathyroid hormone
   d. secreted by the thymus
   e. a and c from above are true

9. Diabetes Type II is cause by
   a. a decrease in the production of insulin by alpha cells in the pancreas
   b. a decrease in the insulin receptors found on cell membranes
   c. the failure of the liver to convert glycogen to glucose
   d. inhibition of the beta cells in the pancreas by pituitary regulating factors
   e. a & c

Answers

   1. e
   2. a
   3. a
   4. b
   5. e
   6. a
   7. c
   8. e
   9. b