

LEARNING EXERCISES

**MATCHING WORD PARTS 1**

Write the correct answer in the middle column.

Definition	Correct Answer	Possible Answers
13.1. adrenal glands	_____	acr/o
13.2. extremities	_____	adren/o
13.3. ovaries or testicles	_____	crin/o
13.4. thirst	_____	-dipsia
13.5. to secrete	_____	gonad/o

**MATCHING WORD PARTS 2**

Write the correct answer in the middle column.

Definition	Correct Answer	Possible Answers
13.6. condition	_____	pituitar/o
13.7. pancreas	_____	pineal/o
13.8. parathyroid	_____	parathyroid/o
13.9. pineal gland	_____	pancreat/o
13.10. pituitary	_____	-ism

**MATCHING WORD PARTS 3**

Write the correct answer in the middle column.

Definition	Correct Answer	Possible Answers
13.11. body	_____	thym/o
13.12. many	_____	thyroid/o
13.13. sugar	_____	somat/o

- 13.14. thyroid \_\_\_\_\_ poly-
- 13.15. thymus, soul \_\_\_\_\_ glyc/o

## DEFINITIONS

Select the correct answer and write it on the line provided.

- 13.16. The \_\_\_\_\_ hormone stimulates ovulation in the female.  
 estrogen                      follicle-stimulating                      lactogenic                      luteinizing
- 13.17. The \_\_\_\_\_ gland secretes hormones that control the activity of the other endocrine glands.  
 adrenal                      hypothalamus                      pituitary                      thymus
- 13.18. The \_\_\_\_\_ hormone stimulates the growth and secretions of the adrenal cortex.  
 adrenocorticotrophic                      growth                      melanocyte-stimulating                      thyroid-stimulating
- 13.19. The \_\_\_\_\_ gland has functions in the endocrine and immune systems.  
 adrenal                      parathyroid                      pineal                      thymus
- 13.20. The hormone \_\_\_\_\_ works with the parathyroid hormone to regulate calcium levels in the blood and tissues.  
 aldosterone                      calcitonin                      glucagon                      leptin
- 13.21. Cortisol is secreted by the \_\_\_\_\_ .  
 adrenal cortex                      adrenal medulla                      pituitary gland                      thyroid gland
- 13.22. The amount of glucose in the bloodstream is increased by the hormone \_\_\_\_\_ .  
 adrenaline                      glucagon                      hydrocortisone                      insulin
- 13.23. Norepinephrine is secreted by the \_\_\_\_\_ .  
 adrenal cortex                      adrenal medulla                      pancreatic islets                      pituitary gland
- 13.24. The hormone \_\_\_\_\_ stimulates uterine contractions during childbirth.  
 estrogen                      oxytocin                      progesterone                      testosterone

13.25. The development of the male secondary sex characteristics is stimulated by the hormone \_\_\_\_\_.

parathyroid

pitocin

progesterone

testosterone

**MATCHING STRUCTURES**

Write the correct answer in the middle column.

Definition	Correct Answer	Possible Answers
13.26. controls blood sugar levels	_____	thyroid gland
13.27. controls the activity of other endocrine glands	_____	pituitary gland
13.28. influences the sleep-wakefulness cycle	_____	pineal gland
13.29. regulates electrolyte levels	_____	pancreatic islets
13.30. stimulates metabolism	_____	adrenal glands

**WHICH WORD?**

Select the correct answer and write it on the line provided.

13.31. The hormonal disorder that results from too much growth hormone in adults is known as \_\_\_\_\_.

acromegaly

gigantism

13.32. The growth hormone is secreted by the \_\_\_\_\_ of the pituitary gland.

anterior lobe

posterior lobe

13.33. Diabetes type 2 is an \_\_\_\_\_ disorder.

insulin deficiency

insulin resistance

13.34. Insufficient production of ADH causes \_\_\_\_\_.

diabetes insipidus

Graves' disease

13.35. \_\_\_\_\_ is caused by prolonged exposure to high levels of cortisol.

Addison's disease

Cushing's syndrome

**SPELLING COUNTS**

Find the misspelled word in each sentence. Then write that word, spelled correctly, on the line provided.

13.36. Metebolism is the rate at which the body uses energy and the speed at which body functions work. \_\_\_\_\_

13.37. Diabetes mellatus is a group of diseases characterized by defects in insulin production, use, or both. \_\_\_\_\_

13.38. Myxedemia is also known as adult hypothyroidism. \_\_\_\_\_

13.39. The hormone progestarone is released during the second half of the menstrual cycle. \_\_\_\_\_

13.40. Thymoxin is secreted by the thymus gland. \_\_\_\_\_

**ABBREVIATION IDENTIFICATION**

In the space provided, write the words that each abbreviation stands for.

13.41. **ACTH** \_\_\_\_\_

13.42. **ADH** \_\_\_\_\_

13.43. **DM** \_\_\_\_\_

13.44. **OGTT** \_\_\_\_\_

13.45. **FSH** \_\_\_\_\_

**TERM SELECTION**

Select the correct answer and write it on the line provided.

13.46. A condition caused by excessive secretion of any gland is known as \_\_\_\_\_.

endocrinopathy

goiter

hypercrinism

hypocrinism

13.47. The condition known as \_\_\_\_\_ is characterized by abnormally high concentrations of calcium circulating in the blood instead of being stored in the bones.

hypercalcemia

hyperthyroidism

hypocrinism

polyphagia

13.48. The four \_\_\_\_\_ glands, each of which is about the size of a grain of rice, are embedded in the posterior surface of the thyroid gland.

adrenal                      pancreatic                      parathyroid                      pineal

13.49. A/An \_\_\_\_\_ is a benign tumor of the pituitary gland that causes it to produce too much prolactin.

insuloma                      pheochromocytoma                      pituitary adenoma                      prolactinoma

13.50. The average blood sugar over the past 3 weeks is measured by the \_\_\_\_\_ test.

blood sugar monitoring                      fructosamine                      glucose tolerance                      hemoglobin A1c

### SENTENCE COMPLETION

Write the correct term on the line provided.

13.51. The mineral substances known as \_\_\_\_\_ are found in the blood and include sodium and potassium.

13.52. The two primary hormones secreted by the thyroid gland are triiodothyronine and \_\_\_\_\_.

13.53. Damage to the retina of the eye caused by diabetes mellitus is known as diabetic \_\_\_\_\_.

13.54. The medical term meaning excessive hunger is \_\_\_\_\_.

13.55. Abnormal protrusion of the eye out of the orbit is known as \_\_\_\_\_.

### WORD SURGERY

Divide each term into its component word parts. Write these word parts, in sequence, on the lines provided. When necessary use a slash (/) to indicate a combining vowel. (You may not need all of the lines provided.)

13.56. **Hyperpituitarism** is pathology resulting in the excessive secretion by the anterior lobe of the pituitary gland.

\_\_\_\_\_

13.57. **Hypoglycemia** is an abnormally low concentration of glucose in the blood.

\_\_\_\_\_

13.58. **Hyperinsulinism** is the condition of excessive secretion of insulin in the bloodstream.

\_\_\_\_\_

13.59. **Gynecomastia**, is the condition of excessive mammary development in the male.  
\_\_\_\_\_

13.60. **Hypocalcemia** is characterized by abnormally low levels of calcium in the blood.  
\_\_\_\_\_

**TRUE/FALSE**

If the statement is true, write **True** on the line. If the statement is false, write **False** on the line.

13.61. \_\_\_\_\_ The beta cells of the pancreatic islets secrete glucagon in response to low blood sugar levels.

13.62. \_\_\_\_\_ A pheochromocytoma is a benign tumor of the adrenal medulla that causes the gland to produce excess epinephrine.

13.63. \_\_\_\_\_ Human chorionic gonadotropin (HCG) is secreted by the adrenal cortex.

13.64. \_\_\_\_\_ An insulinoma is a malignant tumor of the pancreas that causes hypoglycemia by secreting insulin.

13.65. \_\_\_\_\_ Polyuria is excessive urination.

**CLINICAL CONDITIONS**

Write the correct answer on the line provided.

13.66. During his studies, Rodney Milne learned that the \_\_\_\_\_ hormone maintains the water balance within the body by promoting the reabsorption of water through the kidneys.

13.67. Eduardo Chavez complained of being thirsty all the time. His doctor noted this excessive thirst on his chart as \_\_\_\_\_.

13.68. Mrs. Wei's symptoms included chronic, worsening fatigue and muscle weakness, loss of appetite, and weight loss because her adrenal glands do not produce enough cortisol. Her doctor diagnosed this condition as \_\_\_\_\_.

13.69. Linda Thomas was diagnosed as having a/an \_\_\_\_\_. This is a benign tumor of the pancreas that causes hypoglycemia by secreting insulin.

- 13.70. Patrick Edward has the autoimmune disorder known as \_\_\_\_\_  
 In this the body's own antibodies attack and destroy the cells of the thyroid gland.
- 13.71. When "the champ" was training for the Olympics, he was tempted to use \_\_\_\_\_ steroids to  
 increase his strength and muscle mass.
- 13.72. Holly Yates was surprised to learn that \_\_\_\_\_, which is a hormone secreted by fat cells,  
 travels to the brain and controls the balance of food intake and energy expenditure.
- 13.73. As a result of a congenital lack of thyroid secretion, the Vaugh-Eames child suffers  
 from \_\_\_\_\_, which is a condition of arrested physical and mental development.
- 13.74. Ray Grovenor is excessively tall and large. This condition, which was caused by excessive functioning of the  
 pituitary gland before puberty, is known as \_\_\_\_\_.
- 13.75. Rosita DeAngelis required the surgical removal of her pancreas. The medical term for this procedure  
 is a/an \_\_\_\_\_.

### WHICH IS THE CORRECT MEDICAL TERM?

Select the correct answer and write it on the line provided.

- 13.76. Although they are produced by specialized cells in the brain, \_\_\_\_\_ are able to travel  
 through the bloodstream and affect cells throughout distant parts of the body.  
 hormones                      neurohormones                      neurotransmitters                      steroids
- 13.77. A/An \_\_\_\_\_ is a slow-growing, benign tumor of the pituitary  
 gland that is a functioning tumor (secreting hormones) or a nonfunctioning tumor (not secreting hormones).  
 hyperpituitarism                      hypopituitarism                      pituitary adenoma                      prolactinoma
- 13.78. \_\_\_\_\_ disease, which is an autoimmune disorder caused by hyperthyroidism, is  
 characterized by goiter and/or exophthalmos.  
 Addison's                      Cushing's                      Graves'                      Hashimoto's
- 13.79. The diabetic emergency caused by very high blood sugar is a/an \_\_\_\_\_  
 \_\_\_\_\_. This condition must be treated by the prompt administration of insulin.  
 diabetic coma                      hypoglycemia                      insulin shock                      insuloma

13.80. The hormone \_\_\_\_\_, which is secreted by the pineal gland, influences the sleep-wakefulness cycles.

glucagon

melatonin

parathyroid

thymosin

### CHALLENGE WORD BUILDING

These terms are *not* found in this chapter; however, they are made up of the following familiar word parts. If you need help in creating the term, refer to your medical dictionary.

endo-

adren/o

-emia

crin/o

-itis

insulin/o

-megaly

pancreat/o

-ology

pineal/o

-oma

thym/o

-otomy

thyroid/o

-pathy

13.81. The term meaning any disease of the adrenal glands is \_\_\_\_\_.

13.82. The study of endocrine glands and their secretions is known as \_\_\_\_\_.

13.83. Abnormal enlargement of the adrenal glands is known as \_\_\_\_\_.

13.84. The term meaning any disease of the thymus gland is \_\_\_\_\_.

13.85. Inflammation of the thyroid gland is known as \_\_\_\_\_.

13.86. A surgical incision into the pancreas is a/an \_\_\_\_\_.

13.87. A surgical incision into the thyroid gland is a/an \_\_\_\_\_.

13.88. The term meaning any disease of the pineal gland is \_\_\_\_\_.

13.89. Abnormally high levels of insulin in the blood are known as \_\_\_\_\_.

13.90. Inflammation of the adrenal glands is known as \_\_\_\_\_.



**LABELING EXERCISES**

Identify the numbered items on the accompanying figure.

13.91. \_\_\_\_\_ gland

13.92. \_\_\_\_\_ glands

13.93. \_\_\_\_\_ gland

13.94. \_\_\_\_\_ of the female

13.95. \_\_\_\_\_

13.96. \_\_\_\_\_ gland

13.97. \_\_\_\_\_ gland

13.98. \_\_\_\_\_ glands

13.99. \_\_\_\_\_ islets

13.100. \_\_\_\_\_ of the male

