

28. Jessica is experiencing hematuria. Which process of urine formation has been ineffective?
- A. Filtration
  - B. Reabsorption
  - C. Secretion
  - D. Excretion
29. A 19 year old male that has not begun to develop chest hair, a deep voice, or increased muscle mass may be deficient in which hormone?
- A. Estrogen
  - B. Insulin
  - C. Progesterone
  - D. Testosterone
30. The pancreas is also an organ of the:
- A. circulatory system.
  - B. digestive system.
  - C. lymphatic system.
  - D. respiratory system.
31. The pituitary gland is located:
- A. at the base of the brain.
  - B. atop the kidney.
  - C. in the chest.
  - D. in the pelvic cavity.
32. An organ that produces a secretion called hormones is called a:
- A. duct.
  - B. ductless.
  - C. gland.
  - D. target.
33. A teenage girl that has undeveloped breasts and has not started her menstrual cycle indicates that a hormone deficiency exists. What hormone is deficient?
- A. Estrogen
  - B. Insulin
  - C. Oxytocin
  - D. Testosterone
34. A 47 year old man went to see his doctor. When reviewing family pictures, the patient's wife noted that her husband had developed enlarged hands, lips and nose, and that his chin protrudes more than it used to. Following some laboratory studies, the doctor diagnosed the patient with:
- A. acromegaly.
  - B. Grave's disease.
  - C. hypothyroidism.
  - D. toxic goiter.

21. Mr. Burns had a stroke and has been urinating involuntarily. What is this condition called?
- A. Cystitis
  - B. Glomerulonephritis
  - C. Incontinence
  - D. Pyuria
22. Jackie complained to his/her doctor about nervousness, and weight loss even though he/she has had increased food intake. Laboratory tests revealed that Jackie had an elevated level of which hormone?
- A. Adrenaline
  - B. Glucagon
  - C. Parathormone
  - D. Thyroxin
23. Which endocrine gland contains the Islets of Langerhans?
- A. Brain stem
  - B. Liver
  - C. Pancreas
  - D. Thymus
24. Liver damage, heart disease, testicular changes, and breast growth in males are symptoms of:
- A. Addison's disease.
  - B. Cushing's syndrome.
  - C. hyperthyroidism.
  - D. steroid abuse.
25. Dehydration has a direct effect on urine formation. The proximal convoluted tubules are responsible for correcting the water imbalance found with dehydration. What is this process called?
- A. Diffusion
  - B. Filtration
  - C. Reabsorption
  - D. Secretion
26. A small child was being chased by a large dog. Out of fear, the child ran really fast. Which hormone enabled the child to get away from the dog?
- A. Adrenal
  - B. Parathyroid
  - C. Pineal
  - D. Thymus
27. Trey has the appearance of a tan even during the winter months. During a physical exam, he had a low blood pressure and low blood sugar. These symptoms are indicative of:
- A. Addison's disease.
  - B. Cushing's syndrome.
  - C. hyperthyroidism.
  - D. steroid abuse.

7. The adrenal glands are located directly above the kidneys and are:
- A. composed of only a few cells.
  - B. divided into the cortex and medulla.
  - C. exocrine glands.
  - D. pine-shaped.
8. The Bowman's capsule, proximal convoluted tubule, and loop of Henle are all parts of a:
- A. bladder.
  - B. nephron.
  - C. pelvis.
  - D. ureter.
9. The endocrine disorder that could be prevented by using iodized salt is:
- A. acromegaly.
  - B. gigantism.
  - C. hyperthyroidism.
  - D. hypothyroidism
10. Urine leaves the kidney by way of the:
- A. glomerulus.
  - B. nephron.
  - C. ureter.
  - D. urethra.
11. Which structure is a hollow muscular sac?
- A. Bladder
  - B. Kidney
  - C. Ureter
  - D. Urethra
12. The endocrinologist saw a patient whose parents were concerned about their 8 year old child's short stature. The physician suspects that the child may have a deficiency in:
- A. growth hormone.
  - B. oxytocin.
  - C. prolactin.
  - D. vasopressin.
13. In an emergency situation, the "fight or flight" hormone will increase the heart rate and blood pressure. This hormone is:
- A. ADH.
  - B. adrenalin.
  - C. insulin.
  - D. thyroxin.

**AH I Endocrine Objectives**

- 19** The parathyroid glands are located:
- A Above the kidneys.
  - B Beside the heart.
  - C In the brain.
  - D In the neck.
- 20** The endocrine portion of the pancreas is the:
- A Corpus luteum.
  - B Haversian canal.
  - C Islets of Langerhans.
  - D Loop of Henle.
- 21** Bruce is 8 feet tall and weighs 260 pounds. Which of the following endocrine glands may be responsible for his size?
- A Pancreas
  - B Parathyroid
  - C Pituitary
  - D Testes
- 22** Which of the following disorders is **NOT** directly related to over or under secretion of growth hormone?
- A Acromegaly
  - B Diabetes
  - C Dwarfism
  - D Giantism
- 23** Simple goiter is caused by:
- A A lack of sodium in the diet.
  - B A low dietary intake of iodine.
  - C Oversecretion of the thyroid gland.
  - D Swelling of the larynx.
- 24** Enlargement of the bones of the hands, feet, and joints, with a characteristic protruding chin are common symptoms of:
- A Acromegaly.
  - B Grave's disease.
  - C Hypothyroidism.
  - D Toxic goiter.
- 25** A child with retarded growth and sexual development who is also mentally retarded would most likely be suffering from:
- A Acromegaly.
  - B Cretinism.
  - C Diabetes.
  - D Dwarfism.
- 26** Which of the following is **NOT** a symptom of hyperthyroidism?
- A Fatigue
  - B Increased appetite
  - C Nervous irritability
  - D Weight loss
- 27** Accidental removal of the parathyroid glands could cause:
- A Diabetes.
  - B Leukemia.
  - C Menopause.
  - D Tetany.

**Go on to next page**

## AH I Endocrine Objectives

⇒ **Directions For Numbers 1-32** : Read each of the following multiple-choice items and the possible answers carefully. Mark the letter of the correct answer on your answer sheet or as instructed by your teacher.

- 1** The hormone FSH stimulates growth of the graafian follicle to grow in the:
  - A Hair.
  - B Ovaries.
  - C Skin.
  - D Uterus.
  
- 2** Which endocrine gland produces a response to stress?
  - A Adrenal
  - B Parathyroid
  - C Pineal
  - D Thymus
  
- 3** Body cells that react to a particular hormone are called:
  - A Cyclic AMP cells.
  - B Messenger hypothesis cells.
  - C Neurosecretory cells.
  - D Target organ cells.
  
- 4** When released from endocrine cells in the pancreas, insulin acts to:
  - A Increase water retention.
  - B Inhibit microbial growth.
  - C Lower blood sugar levels.
  - D Raise blood pressure.
  
- 5** During what time of the day would the pancreas normally secrete the most insulin?
  - A After meals
  - B At bedtime
  - C Before meals
  - D Upon awakening
  
- 6** Parathyroid hormone tends to increase the concentration of:
  - A Calcium in the blood.
  - B Endorphins in the brain.
  - C Iron in the liver.
  - D Sodium in the kidneys.
  
- 7** Prolactin stimulates milk secretion after the delivery of a baby. Prolactin is produced by the:
  - A Adrenal gland.
  - B Ovaries.
  - C Pituitary gland.
  - D Thyroid gland.
  
- 8** Which two pituitary hormones act on the ovaries and testes?
  - A ACTH and TSH
  - B FSH and LH
  - C LH and ACTH
  - D TSH and FSH

**Go on to next page**