### **CHAPTER 3**

#### HORMONES AND SEXUALITY

#### **TEST QUESTIONS**

#### A. MULTIPLE CHOICE

- 1. Hormones are transported throughout the body by
- a. nerves
- b. muscles
- c. the bloodstream
- d. all of the above

#### p. 60, Factual, c

- 2. The network of ductless glands in our bodies is called the
- a. endocrine system
- b. hormone system
- c. pituitary system
- d. endoderm system
- p. 60, Factual, a
- 3. Which of these hormones is produced by the ovaries?
- a. estrogen
- b. testosterone
- c. progesterone
- d. all of the above

p. 60, Factual, d

- 4. Which of these produces the hormone estrogen?
- a. the testicles
- b. the ovaries
- c. the adrenal glands
- d. all of the above

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p. 60, Factual, d

- 5. Follicle-stimulating hormone and luteinizing hormone are secreted by the
- a. pituitary gland
- b. adrenal gland
- c. ovaries
- d. all of the above

### p. 60, Factual, a

- 6. Follicle-stimulating hormone
- a. stimulates the maturation of a follicle in one of the ovaries
- b. stimulates production of sperm in the testicles
- c. both of the above
- d. none of the above

# p. 60, Factual, c

- 7. The hormone that stimulates production of sperm and maturation of ova is
- a. follicle-stimulating hormone
- b. luteinizing hormone
- c. estrogen
- d. testosterone

# p. 60, Factual, a

- 8. Which hormone stimulates the testicles to produce male hormones?
- a. follicle-stimulating hormone
- b. luteinizing hormone
- c. testosterone
- d. gonadotropin

### p. 60, Factual, b

- 9. Which of these hormones triggers ovulation?
- a. follicle-stimulating hormone (FSH)
- b. progesterone
- c. luteinizing hormone (LH)
- d. estrogen

p. 60, Factual, c

- 10. Oxytocin is associated with
- a. milk release during breast-feeding
- b. labor contractions
- c. orgasmic contractions
- d. all of the above

pp. 60–61, Factual, d

- 11. The release of FSH and LH from the pituitary gland follows the release of
- a. estrogen
- b. testosterone
- c. GnRH
- d. progesterone

p. 61, Factual, c

- 12. The average length of women's menstrual cycles is
- a. 24 hours
- b. 4 days
- c. 14 days
- d. 28 days
- p. 62, Factual, d
- 13. For numbering purposes, day 1 of the menstrual cycle is
- a. the start of menstruation
- b. the end of menstruation
- c. ovulation
- d. puberty

p. 62, Factual, a

- 14. A woman's menstrual cycle begins with the release of
- a. estrogen
- b. progesterone
- c. follicle-stimulating hormone
- d. luteinizing hormone

p. 63, Factual, c

- 15. The release of estrogen during the preovulatory phase of the menstrual cycle
- a. inhibits release of follicle-stimulating hormone
- b. stimulates release of luteinizing hormone
- c. promotes growth of the endometrium
- d. all of the above

# p. 63, Factual, d

- 16. The correct order of events leading to ovulation is
- a. development of a follicle, release of LH, secretion of estrogen, increased levels of FSH
- b. increased levels of FSH, release of LH, development of a follicle, secretion of estrogen
- c. release of LH, increased levels of FSH, secretion of estrogen, development of a follicle
- d. increased levels of FSH, development of a follicle, secretion of estrogen, release of LH

### p. 63, Factual, d

- 17. In humans, the \_\_\_\_\_\_ signals the onset of ovulation within 12 to 24 hours.
- a. change in the cervical mucus to white and sticky
- b. LH surge
- c. onset of bleeding
- d. sudden increase in sexual interest

# p. 63, Factual, b

- 18. The rupturing of the follicle and the release of the mature egg into the abdominal cavity is called
- a. proliferation
- b. ovulation
- c. fertilization
- d. preovulation

### p. 63, Factual, b

- 19. The mucus of the cervix becomes \_\_\_\_\_\_ at ovulation.
- a. white and sticky
- b. clear and slippery
- c. thick and yellowish
- d. red with released blood

### p. 64, Factual, b

- 20. In the \_\_\_\_\_ phase of the menstrual cycle, the cells of the corpus luteum begin to secrete high levels of progesterone.
- a. preovulatory phase
- b. ovulation
- c. postovulatory phase
- d. menstruation
- p. 64, Factual, c
- 21. If implantation fails to occur, the corpus luteum
- a. will secrete estrogen continually for 3 months
- b. will degenerate
- c. will secrete progesterone continually for 3 months
- d. all of the above

# p. 64, Factual, b

- 22. Menstruation consists of
- a. blood
- b. cervical mucus
- c. sloughed off endometrial tissue
- d. all of the above

## p. 64, Factual, d

- 23. Women's menstrual cycles
- a. are always 28 days
- b. are always  $28\pm1$  days
- c. average 28 days, but often vary by at least 7 days
- d. average 28 days and vary by no more than 2 days

### p. 64, Factual, c

- 24. Women's menstrual cycles vary mostly because of big differences in the length of their
- a. ovulation phases
- b. postovulatory phases
- c. preovulatory phases
- d. menstrual phases

p. 64, Factual, c

- 25. Some studies have found that women who live together eventually have synchronized menstrual cycles. Evidence suggests that this is due to
- a. hormones
- b. pheromones
- c. estrogen
- d. gonadotropins
- p. 65, Factual, b
- 26. In mammals that have an estrous cycle, the female is sexually receptive only during
- a. the preovulatory phase
- b. ovulation
- c. the postovulatory phase
- d. menstruation

# p. 65, Factual, b

- 27. Studies indicate that women
- a. show a large peak in sexual interest in the week before ovulation
- b. show a large peak in sexual interest at the time of ovulation
- c. show a large peak in sexual interest in the week after ovulation
- d. can be interested in sex any time during the menstrual cycle

## p. 65, Factual, d

- 28. In Western culture, negative attitudes about menstruation can be traced as far back as the
- a. biblical Hebrews
- b. early Christians
- c. Puritans
- d. Victorians

p. 66, Factual, a

- 29. Anthropologists believe that menstrual taboos within a culture
- a. emphasize the procreational purpose of sex
- b. deny the pleasurable aspects of sex
- c. serve to emphasize the low status and inferiority of women
- d. all of the above

p. 67, Factual, c

- 30. Many couples avoid sexual intercourse during menstruation because
- a. the chance of pregnancy is greatest at this time
- b. of socially learned negative attitudes
- c. the chance of infection is greatest at this time
- d. women are biologically programmed not to be interested in sex at this time
- p. 68, Applied, b
- 31. During menstruation, couples should
- a. avoid sex because of the chance of infection
- b. avoid sex because the chance of pregnancy is high
- c. avoid sex because women are biologically programmed not to be interested in sex at this time
- d. none of the above

# p. 68, Applied, d

- 32. In terms of risk for pregnancy, the safest phase of the menstrual cycle to have sexual intercourse is during
- a. the preovulatory phase
- b. ovulation
- c. the postovulatory phase
- d. menstruation

### p. 69, Applied, d

- 33. Amenorrhea can be caused by
- a. intense exercise and stress
- b. anorexia nervosa
- c. pituitary or ovarian problems
- d. all of the above

### p. 69, Factual, d

- 34. Susan is always dieting and is underweight. She is likely to experience
- a. amenorrhea
- b. premenstrual syndrome
- c. painful menstruation
- d. toxic shock syndrome

### p. 69, Applied, a

- 35. Which of these statements regarding PMS is FALSE?
- a. physical symptoms of PMS can include swelling, weight gain, tenderness, and headaches
- b. women with PMS generally have abnormal progesterone levels
- c. emotional symptoms of PMS may include depression, tension, anxiety, and an inability to concentrate
- d. symptoms of PMS show rapid relief once menstruation begins
- p. 70, Factual, b
- 36. Susan is feeling nervous, irritable, and has anxieties, but the symptoms disappear when her menstrual period begins. Susan probably has
- a. amenorrhea
- b. premenstrual syndrome
- c. dysmenorrhea
- d. menarche
- p. 70, Applied, b
- 37. The symptoms of PMS are often made worse by
- a. negative attitudes about menstruation
- b. caffeine
- c. excess salt intake
- d. all of the above

### p. 71, Applied, d

- 38. Recent studies indicate that PMS is due in part to
- a. an estrogen/progesterone imbalance
- b. high levels of estrogen
- c. high levels of progesterone
- d. an interaction of ovarian hormones with serotonin
- p. 71, Factual, d
- 39. Secondary dysmenorrhea is often caused by
- a. endometriosis
- b. pelvic inflammatory disease
- c. ovarian cysts
- d. all of the above

p. 71, Factual, d

- 40. Primary dysmenorrhea is caused by an overproduction of
- a. prostaglandins
- b. ibuprofen
- c. Mittelschmerz
- d. progesterone

#### p. 71, Factual, a

- 41. Women who suffer from primary dysmenorrhea can often get relief by
- a. having orgasms
- b. anti-prostaglandin drugs
- c. birth control pills
- d. all of the above

### p. 71, Applied, d

- 42. A condition in which the endometrium tissue grows in places other than the inner uterus is called
- a. endometriosis
- b. dysmenorrhea
- c. toxic shock syndrome
- d. premenstrual syndrome

#### p. 72, Factual, a

- 43. Endometriosis is a condition that causes pain at menstruation and is caused by
- a. endometrial tissue growing outside the uterus
- b. overproduction of prostaglandins
- c. bacterial infection
- d. all of the above

p. 72, Factual, a

- 44. Toxic shock syndrome is caused by
- a. endometrial tissue growing outside the uterus
- b. overproduction of prostaglandins
- c. toxins produced by a bacterium
- d. all of the above

p. 72, Factual, c

- 45. In men, FSH production is inhibited by increases in blood levels of
- a. testosterone
- b. inhibin
- c. GnRH
- d. all of the above

## p. 73, Factual, b

- 46. Women have monthly cycles of fluctuating hormone levels and men do not because of differences in their
- a. pituitary glands
- b. FSH and LH
- c. hypothalamus
- d. all of the above

# p. 74, Factual, c

- 47. Castration in sexually experienced men causes
- a. a total and permanent loss of sexual desire in all cases
- b. a gradual decline in sexual desire in all cases
- c. only a temporary loss of sexual desire in all cases
- d. loss of sexual desire in most men, but little change in others

## p. 74, Factual, d

- 48. The most important hormone for sexual desire in women appears to be
- a. estrogen
- b. progesterone
- c. testosterone
- d. depo-provera

### p. 74, Factual, c

- 49. Kim has shown a loss of sexual desire after reaching menopause (note: this usually does not occur). Her doctor would probably advise that she be given \_\_\_\_\_ to restore desire.
- a. estrogen
- b. progesterone
- c. testosterone
- d. follicle stimulating hormone
- p. 74, Applied, c

- 50. Taking anabolic steroids to improve athletic performance can lead to
- a. mild to severe mental disorders
- b. liver damage, elevated calcium levels, and increased blood pressure
- c. testicular atrophy in men and masculinizing effects in women
- d. all of the above

p. 75, Factual, d

# **B. TRUE-FALSE**

- 51. The endocrine system includes the pituitary gland, adrenal glands, and sweat glands.
- a. True
- b. False

p. 60, Factual, b

- 52. Young, adult men normally do not have any estrogen in their bodies.
- a. True
- b. False

p. 60, Factual, b

- 53. Follicle-stimulating hormone stimulates the production of sperm in the testicles.
- a. True
- b. False

p. 60, Factual, a

- 54. The pituitary gland controls the release of FSH and LH.
- a. True
- b. False

#### p. 61, Factual, b

- 55. A woman's ovaries continue to produce new eggs until she reaches menopause.
- a. True
- b. False

### p. 61, Factual, b

- 56. The average length of women's menstrual cycles is 30 days (1 month).
- a. True
- b. False

p. 62, Factual, b

- 57. In the preovulatory phase of the menstrual cycle, the follicle releases large amounts of estrogen.
- a. True
- b. False
- p. 63, Factual, a
- 58. During ovulation, the follicle is released into the abdominal cavity.
- a. True
- b. False

p. 63, Factual, b

- 59. Some women can tell when they are ovulating.
- a. True
- b. False
- p. 64, Factual, a
- 60. In the postovulatory phase of the menstrual cycle, the follicle releases less progesterone than before.
- a. True
- b. False
- p. 64, Factual, b
- 61. The length of adult women's menstrual cycles is almost always  $28 \pm 2$  days.
- a. True
- b. False

### p. 64, Factual, b

- 62. Men and women may be able to affect one another's biological functions via their natural body odors.
- a. True
- b. False
- pp. 64-65, Factual, a
- 63. Menstruation is a natural characteristic of female mammals.
- a. True
- b. False

p. 65, Factual, b

- 64. Although women can have sex at any time, they really do not desire it except at the time of ovulation.
- a. True
- b. False
- p. 65, Factual, b
- 65. Many couples show a drop in sexual activity during menstruation. This is usually the result of hormones.
- a. True
- b. False
- pp. 66-68, Factual, b
- 66. Sexual intercourse during menstruation is unhealthy.
- a. True
- b. False
- pp. 66-68, Applied, b
- 67. Menstruation is a sign that a woman is sexually experienced.
- a. True
- b. False
- pp. 61-68, Factual, b
- 68. Amenorrhea is common among women athletes who have a low body fat level.
- a. True
- b. False
- p. 69, Factual, a
- 69. Most women with PMS can get relief with injections of progesterone.
- a. True
- b. False
- p. 70, Factual, b
- 70. It is recommended that women suffering from PMS should avoid caffeine.
- a. True
- b. False

p. 71, Applied, a

- 71. Primary dysmenorrhea is caused primarily by an overproduction of prostaglandins.
- a. True
- b. False

### p. 71, Factual, a

- 72. Many cases of dysmenorrhea are caused by endometriosis.
- a. True
- b. False

# p. 71, Factual, a

- 73. It is okay for women who use extra-absorbent tampons to change them just once a day.
- a. True
- b. False

# p. 72, Applied, b

- 74. Levels of FSH and LH in men undergo monthly cycles somewhat similar to those seen in women.
- a. True
- b. False

# p. 73, Factual, b

- 75. Men's hypothalamus are different from women's hypothalamus.
- a. True
- b. False

### p. 74, Factual, a

- 76. Men's pituitary glands are different from women's pituitary glands.
- a. True
- b. False

# pp. 73-74, Factual, b

- 77. The reason women's hormone levels fluctuate and men's do not is due to differences in the hypothalamus (brain).
- a. True
- b. False

### p. 74, Factual, a

- 78. Castration always eliminates sexual desire in men.
- a. True
- b. False

### p. 74, Factual, b

- 79. The loss of estrogen and progesterone at menopause does not reduce sexual desire in most women.
- a. True
- b. False

# p. 74, Applied, a

- 80. For women, the most important hormone for sexual desire is testosterone.
- a. True
- b. False
- p. 74, Factual, a
- 81. The use of anabolic steroids can make a man's penis bigger.
- a. True
- b. False

## p. 76, Factual, b

- 82. Women who take anabolic steroids risk permanent masculinization, even after they quit.
- a. True
- b. False
- p. 76, Factual, a

# C. ESSAY

- 83. Describe the hormonal events that take place during the menstrual cycle.
- 84. Explain some differences between menstrual cycles and estrous cycles.
- 85. What are pheromones? What evidence is there that pheromones may play a role in the regulation of human menstrual cycles?
- 86. Describe why menstruation is often associated with negative beliefs, and why this should not be the case.
- 87. What role do hormones play in human sexual desire?

- 88. Explain the difference between dysmenorrhea and PMS, and discuss what we know about the biological causes of each.
- 89. Describe the brain-pituitary-gonad feedback loop for the production of sperm and testosterone in men.

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