### UNIT 11 REPRODUCTIVE SYSTEM REVIEW

1. The duct that is used by both the reproductive and excretory systems in males is the

2. Storage and maturation of sperm occurs in the

3. A function of the interstitial cells of the testes is the

4. Which of the following store sperm cells and eliminate those that have major genetic defects?

5. The part of the sperm that contains hydrolytic enzymes is the

6. Which of the following is **not** a function of seminal fluid?
   A. provides a suitable pH  
   B. supplies an energy source  
   C. causes the uterus to contract  
   D. constricts the urethra during ejaculation

7. The part of a sperm cell containing the greatest number of mitochondria is the

8. The sperm penetrates the egg by means of enzymes that are found in the

9. Which of the following would be affected by removal of the prostate gland?

10. Which part of a mature sperm contains mitochondria?

11. When sperm is ejaculated, it comes into contact with or passes near each of the following structures. Which sequence correctly describes the passage of sperm out of the body?
    A. seminiferous tubules → prostate → vas deferens → urethra  
    B. seminiferous tubules → vas deferens → urethra → prostate  
    C. seminiferous tubules → vas deferens → prostate → urethra  
    D. prostate → seminiferous tubules → vas deferens → urethra

12. Spermatogenesis occurs in the

13. Testosterone is produced in the

14. Testosterone is produced in the

15. When testosterone levels in a man’s bloodstream decrease,
    A. the hypothalamus shuts down.  
    B. more progesterone is secreted.  
    C. luteinizing hormone (LH) secretion is increased.  
    D. follicle-stimulating hormone (FSH) secretion is blocked.

16. The production of testosterone is regulated by
    A. oxytocin.  B. progesterone.  C. luteinizing hormone (LH).  D. follicle-stimulating hormone (FSH).

17. Testosterone levels in males are regulated by
18. The function of the endometrium is to
   A. carry the egg to the uterus.
   B. release an egg once a month.
   C. produce hormones for the uterine cycle.
   D. provide nourishment for the developing embryo.

19. Menstruation is the discharge of
   A. a follicle.  B. the uterine lining.  C. the corpus luteum.  D. the cells lining the vagina.

20. A rise in blood levels of FSH at the beginning of the ovarian cycle causes
   A. menopause.
   B. the release of the egg.
   C. the maturation of the follicle.
   D. the breakdown of the endometrium.

21. Low levels of estrogen and progesterone in the blood will result in

22. Which of the following statements is correct regarding the sequence of events during the ovarian and uterine cycles?
   A. Ovulation occurs when progesterone levels decrease.
   B. The endometrium is shed as estrogen levels increase.
   C. As the corpus luteum degenerates, progesterone levels decrease.
   D. When implantation occurs, HCG (human chorionic gonadotropic) hormone levels decrease.

23. Which hormone triggers the release of the egg from the developing follicle?

24. A woman who exhibits male secondary sexual characteristics may have a tumor in her

25. Fertilization of the egg almost always occurs in the

26. Use the following information to answer the question.
   1. Urethra
   2. Epididymis
   3. Vagina
   4. Oviduct
   5. Ductus vas deferens
   Which of the following would be the correct path of a sperm on its way to fertilize an egg?
   A. 1, 2, 3, 5, 4
   B. 1, 3, 4, 5, 2
   C. 2, 1, 3, 4, 5
   D. 2, 5, 1, 3, 4

27. Which of the following, if present in urine samples, would indicate pregnancy?
   A. estrogen  B. progesterone  C. luteinizing hormone (LH)  D. human chorionic gonadotropin (HCG)

28. The hormone produced as a result of implantation is called
   A. testosterone.  B. luteinizing hormone (LH).
   C. follicle stimulating hormone (FSH).
   D. human chorionic gonadotropic hormone (HCG).

29. The carbon dioxide produced by a developing fetus is removed by the

30. Positive feedback controls the secretion of which of the following hormones?

31. The presence of human chorionic gonadotropin (HCG) in a woman’s urine indicates that she
   A. is pregnant.  B. has just ovulated.  C. is about to menstruate.  D. has decreased estrogen levels.
32. Most birth-control pills work by preventing egg maturation. These pills contain which of the following hormones?
   A. estrogen  
   B. testosterone  
   C. luteinizing hormone (LH)  
   D. follicle-stimulating hormone (FSH)

33. Increased secretion of FSH (follicle-stimulating hormone) will result in increased production of
   A. sperm  
   B. progesterone  
   C. seminal fluid  
   D. human chorionic gonadotropin (HCG).

34. The site of testosterone production in the cytoplasm of an interstitial cell is the
   A. lysosome  
   B. mitochondrion  
   C. rough endoplasmic reticulum  
   D. smooth endoplasmic reticulum.

35. Testosterone is produced in the
   A. epididymis  
   B. interstitial cells  
   C. seminal vesicles  
   D. seminiferous tubules.

36. Which of the following hormones is controlled by positive feedback?
   A. Oxytocin  
   B. Testosterone  
   C. Progesterone  
   D. Follicle-stimulating hormone (FSH).

37. Which of the following hormones does not promote homeostasis?
   A. Insulin  
   B. Oxytocin  
   C. Calcitonin  
   D. Antidiuretic hormone (ADH).

**ANSWER KEY**

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