c2

Student:	
The nervous system as a whole consists of the A. brain; spinal cord B. central nervous system; peripheral nervous system C. somatic nervous system; autonomic nervous system D. sensory nervous system; motor nervous system	and the
2. The peripheral nervous system consists of theA. brain; spinal cord B. central nervous system; peripheral nervous system C. somatic nervous system; autonomic nervous system D. forebrain; hindbrain	and the
3. The nervous system connects the central A. peripheral B. automatic C. autonomic D. somatic	l nervous system with all internal organs.
4. The nervous system mobilizes the body nervous system controls the activities of the visceral organs up A. parasympathetic; sympathetic B. sympathetic; parasympathetic C. somatic; autonomic D. autonomic; peripheral	
5. Damage to the cerebellum is associated with impairedA. muscular coordination.B. respiration.C. speech.D. visual acuity.	

6. The	is responsible for the coordination of visual and auditory reflexes.
A. forebrain	
B. hindbrain	
C. midbrain	
D. diencephalons	
1	
7. Which of the follow	ring is a function of the hypothalamus?
A. control of cardiac f	unctioning, blood pressure, and respiration
B. regulation of the en	docrine system
C. regulation of hunge	r, thirst, and sexual arousal
D. All of these.	
	n an automobile accident in which she suffered extensive damage to the cerebral cortex.
	e has experienced difficulty in coordinating voluntary movement. In particular, June has
	ctivities on the right side of her body. June most likely suffered damage in the
A. left frontal lobe.	
B. right frontal lobe.	
C. left parietal lobe.	
D. right parietal lobe.	
9. Catecholamines are	
A. exogenes.	
B. neurotransmitters.	
C. telecystors.	
D. arterioles	
10. Secretion of catech	nolamines
A. increases protein ar	nd fat mobilization.
B. regulates sodium re	
C. increases heart rate	and blood pressure.
D. All of these.	
11	is a chronic popprogressive disorder of the perveus existent that is marked by lack of
muscle control.	is a chronic, nonprogressive disorder of the nervous system that is marked by lack of
A. Epilepsy	
B. Parkinson's disease	
C. Myasthenia gravis	
D. Cerebral palsy	
careorar paroj	

12. The gene for has been identified. This allows for at-risk individuals to be tested to ascertain whether they are carriers of this hereditary disorder characterized by chronic physical and mental deterioration due to damaged brain cells. A. epilepsy B. myasthenia gravis C. dementia D. Huntington's disease
13. The nervous system is chiefly responsible for responses to changes in the body; whereas the endocrine system governs mainly responses. A. fast-acting, short-duration; slow-acting, long-duration B. slow-acting, long-duration; fast-acting, short-duration C. fast-acting, long-duration; slow-acting, short-duration D. complementary; antagonistic
14. The release of steroids via the adrenal cortex is stimulated byA. epinephrine and norepinephrine.B. glucocorticoids.C. thyrotropic hormone (TSH).D. adrenocorticotropic hormone (ACTH).
15. Type I diabetesA. typically occurs after age 40.B. is believed to be an autoimmune disorder.C. is a condition that occurs when the body is not sufficiently responsive to insulin.D. is primarily managed through dietary and exercise regimens.
16. Conditions associated with diabetes includeA. blindness.B. kidney failure.C. coronary heart disease.D. All of these.
17. The carry blood from the heart to oxygenate organs and other tissues. A. arteries B. veins C. capillaries D. All of these.

18. During, blood is pumped out of the heart A. diastole; increases; systole; decreases B. diastole; decreases; systole; increases C. systole; increases; diastole; decreases D. systole; decreases; diastole; increases	, and blood pressure
19. Atherosclerosis is A. caused by deposits of cholesterol on the arterial walls. B. characterized by a hardening and reduced elasticity of the arC. a hereditary disease rather than a disease of lifestyle. D. None of these.	rterial walls.
20 is chest pain that occurs because the multiplication is chest pain that occurs because the multiplication of case o	
21. Hypertension is caused byA. high cardiac output.B. highly viscous blood.C. loss of elasticity of the arterial walls.D. All of these.	
22. 3 to 4 million Americans suffer from without warning A. hypertension. B. angina. C. arrhythmia. D. ischemia.	ithout pain and thus could have a heart attack
23. Lymphocytes play an important role in fighting infection at A. secreting digesting enzymes that dissolve foreign particles. B. producing antibodies that destroy substances through the an C. secreting platelets that engulf foreign particles so they may D. producing monoblasts that increase the amount of hemoglob	tigen-antibody reaction. be excreted.

24. Some individuals are unable to produce thromboplastin and fibrin. This condition is associated with a clotting disorder calledA. arteriosclerosis.B. anemia.C. leukopenia.D. hemophilia.
25. The exchange of oxygen and carbon dioxide during respiration occurs between the A. bronchi and the capillaries.B. alveoli and the capillaries.C. alveoli and the arteries.D. bronchioles and the alveoli.
26 involves a condition in which the alveoli become dilated, atrophied, and thin so that elasticity is lost and exhalation becomes difficult. A. Bronchial pneumonia B. Pleurisy C. Tuberculosis D. Pulmonary emphysema
27. The pancreas plays an important role in digestion, because it is responsible for secreting A. bile.B. insulin.C. pepsin.D. bolus.
28. During the digestive process, the absorption of food takes place primarily in the A. stomach. B. duodenum. C. small intestine. D. large intestine.
29. The regulate(s) bodily fluids by removing surplus water, surplus electrolytes, and the waste products generated by the metabolism of food. A. urethra B. bladder C. ureters D. renal system

- 30. The female hormone, estrogen,
- A. is secreted by the anterior pituitary.
- B. is associated with lactation.
- C. is produced during the second half of the menstrual cycle.
- D. leads to the development of secondary sex characteristics in the female.
- 31. The male hormone, testosterone,
- A. brings about the production of sperm.
- B. brings about the secondary sex characteristics in the male.
- C. is produced by the interstitial cells of the testes.
- D. All of these.
- 32. Which of the following is NOT a reproductive disorder?
- A. infertility
- B. Menopause
- C. AIDS
- D. None of these.
- 33. The genetic composition of a normal male child is
- A. 46 chromosomes, two of which are sex chromosomes (XX).
- B. 46 chromosomes, two of which are sex chromosomes (XY).
- C. 23 chromosomes, two of which are sex chromosomes (XX).
- D. 23 chromosomes, two of which are sex chromosomes (XY).
- 34. Which of the following research methods are designed to investigate the relative importance of genetic and environmental factors that contribute to developing medical disorders?
- A. studies of identical twins and fraternal twins
- B. studies of identical twins reared apart
- C. studies of adopted children
- D. All of these.
- 35. Prenatal diagnostic tests are currently available that help detect
- A. epilepsy.
- B. breast and colon cancer.
- C. Huntington's disease.
- D. None of these.

- 36. The case of Helen, who is healthy but has infected others with the AIDS virus, is an example of
- A. direct transmission of disease.
- B. indirect transmission of disease.
- C. biological transmission of disease.
- D. mechanical transmission of disease.
- 37. The course of infection follows a specific sequence; that is
- A. incubation period, period of nonspecific symptoms, acute phase, period of decline.
- B. period of nonspecific symptoms, incubation period, acute phase, period of decline.
- C. acute phase, incubation period, period of nonspecific symptoms, period of decline.
- D. incubation period, acute phase, period of decline.
- 38. A localized infection
- A. is confined to a particular site and does not spread.
- B. is confined to a particular area and sends toxins to other parts of the body.
- C. occurs when the body's resistance is lowered from fighting a primary infection.
- D. affects several different areas.
- 39. Nonspecific immunity may be mediated by the
- A. skin.
- B. phagocytes.
- C. inflammatory response.
- D. All of these.
- 40. Humoral immunity is mediated by
- A. B lymphocytes.
- B. helper and suppressor T cells.
- C. B cells and helper and suppressor T cells.
- D. All of these.
- 41. Cell-mediated immunity is mediated by
- A. B cells.
- B. T_C and T_H cells.
- C. B cells and helper and suppressor T cells.
- D. All of these.

- 42. The spleen
- A. secretes insulin and bile into the bloodstream.
- B. produces neurotransmitters and corticosteroids.
- C. aids in the production of B and T cells and filters the blood.
- D. is primarily a vestigial organ.
- 43. Hodgkin's disease involves
- A. a tropical viral infection.
- B. the progressive, chronic enlargement of tissues of the lymphatic system.
- C. a viral disorder marked by a large number of monocytes.
- D. None of these.
- 44. Autoimmunity
- A. involves the progressive, chronic enlargement of lymphatic tissue.
- B. is a viral disorder marked by an unusually large number of monocytes.
- C. is acquired through measures such as vaccination.
- D. is a condition in which a specific humoral or cell-mediated immune response attacks the body's own tissue.
- 45. Autoimmunity may be implicated in
- A. systemic lupus erythematosis.
- B. arthritis.
- C. multiple sclerosis.
- D. All of these.
- 46. Regulation of the autonomic nervous system occurs via the sympathetic nervous system and the parasympathetic nervous system.

True False

47. The parasympathetic nervous system is activated in individual responses to stress.

True False

48. The structures of the limbic system play an important role in emotion.

True False

49. The endocrine system is responsible for fast-acting, short-duration responses to changes in the body True False
50. The two primary clinical manifestations of atherosclerosis are angina pectoris and congestive heart disease. True False
51. Hepatitis A is typically transmitted through food and water. True False
52. Menopause can be cured definitively by hormone therapy. True False
53. There appears to be a genetic contribution to coronary heart disease and some forms of cancer. True False
54. Antigens are proteins produced in response to stimulation by antibodies. True False
55. Compared to women, men are at greater risk of contracting autoimmune disease. True False
56. Describe and discuss the two most common disorders of the nervous system.

57. Describe the structure and function of the cardiovascular system. Include in your answer the internal and external factors influencing heart rate and the impact on heart functioning.
58. Describe the nature and symptoms of hepatitis. Compare and contrast Hepatitis A and Hepatitis B, including discussion of the cause and mode of transmission.
59. Discuss the role of genetic counseling. Why is it controversial? How can it be used effectively by health psychologists?
60. Compare and contrast nonspecific and specific immune mechanisms. Provide an example of each.

c2 Key

1. (p. 16) The nervous system as A. brain; spinal cord B. central nervous system; per C. somatic nervous system; at D. sensory nervous system; m	itonomic nervous system	_ and the
Level: Factual Taylor - Chapter 02 #1		
2. (p. 16) The peripheral nervous A. brain; spinal cord B. central nervous system; per C. somatic nervous system; at D. forebrain; hindbrain		_ and the
Level: Factual Taylor - Chapter 02 #2		
3. (p. 16) The A. peripheral B. automatic C. autonomic D. somatic	_ nervous system connects the central ner	vous system with all internal organs.
Level: Factual Taylor - Chapter 02 #3		
Level: Conceptual Taylor - Chapter 02 #4		

5. (p. 17) Damage to the condination B. respiration. C. speech. D. visual acuity.	erebellum is associated with impaired on.
Level: Factual Taylor - Chapter 02 #5	
6. (p. 17) The A. forebrain B. hindbrain C. midbrain D. diencephalons	is responsible for the coordination of visual and auditory reflexes.
Level: Factual Taylor - Chapter 02 #6	
A. control of cardiac fur B. regulation of the endo	following is a function of the hypothalamus? nctioning, blood pressure, and respiration ocrine system thirst, and sexual arousal
Level: Conceptual Taylor - Chapter 02 #7	
cortex. Since the acciden	ed in an automobile accident in which she suffered extensive damage to the cerebral nt, she has experienced difficulty in coordinating voluntary movement. In particular, colling activities on the right side of her body. June most likely suffered damage in the
Level: Applied Taylor - Chapter 02 #8	

9. (p. 18) Catecholamines are
A. exogenes.
B. neurotransmitters.
C. telecystors.
D. arterioles
Level: Factual Taylor - Chapter 02 #9
 10. (p. 18) Secretion of catecholamines A. increases protein and fat mobilization. B. regulates sodium retention. C. increases heart rate and blood pressure. D. All of these.
Level: Factual Taylor - Chapter 02 #10
11. (p. 19) is a chronic, nonprogressive disorder of the nervous system that is marked by lack of muscle control. A. Epilepsy B. Parkinson's disease C. Myasthenia gravis D. Cerebral palsy
Level: Factual Taylor - Chapter 02 #11
12. (p. 19) The gene for has been identified. This allows for at-risk individuals to be tested to ascertain whether they are carriers of this hereditary disorder characterized by chronic physical and mental deterioration due to damaged brain cells. A. epilepsy B. myasthenia gravis C. dementia D. Huntington's disease
Level: Conceptual Taylor - Chapter 02 #12

13. (p. 20) The nervous system is chiefly responsible for	responses to changes in the body;
whereas the endocrine system governs mainly	responses.
Level: Factual Taylor - Chapter 02 #13	
14. (p. 20) The release of steroids via the adrenal cortex is stimula A. epinephrine and norepinephrine. B. glucocorticoids. C. thyrotropic hormone (TSH). D. adrenocorticotropic hormone (ACTH).	ted by
Level: Factual Taylor - Chapter 02 #14	
15. (p. 21) Type I diabetes A. typically occurs after age 40. B. is believed to be an autoimmune disorder. C. is a condition that occurs when the body is not sufficiently re D. is primarily managed through dietary and exercise regimens.	-
Level: Factual Taylor - Chapter 02 #15	
16. (p. 21) Conditions associated with diabetes include A. blindness. B. kidney failure. C. coronary heart disease. D. All of these.	
Level: Factual Taylor - Chapter 02 #16	

17. (p. 22) The A. arteries B. veins C. capillaries D. All of these.	carry blood from the heart to oxygenate organs and other tissues.
Level: Conceptual Taylor - Chapter 02 #17	
18. (p. 22) DuringA. diastole; increases; systole B. diastole; decreases; systole C. systole; increases; diastole D. systole; decreases; diastole	; increases ; decreases
Level: Factual Taylor - Chapter 02 #18	
19. (p. 23) Atherosclerosis is A. caused by deposits of chol B. characterized by a hardenin C. a hereditary disease rather D. None of these.	ng and reduced elasticity of the arterial walls.
Level: Factual Taylor - Chapter 02 #19	
	chest pain that occurs because the muscle tissue of the heart must continue its apply of oxygen or adequate removal of carbon dioxide and other waste products.
Level: Factual Taylor - Chapter 02 #20	

 21. (p. 26) Hypertension is caused by A. high cardiac output. B. highly viscous blood. C. loss of elasticity of the arterial walls. D. All of these.
Level: Conceptual Taylor - Chapter 02 #21
22. (p. 23) 3 to 4 million Americans suffer from without pain and thus could have a heart attack without warning A. hypertension. B. angina. C. arrhythmia. D. ischemia.
Level: Factual Taylor - Chapter 02 #22
23. (p. 24) Lymphocytes play an important role in fighting infection and disease by A. secreting digesting enzymes that dissolve foreign particles. B. producing antibodies that destroy substances through the antigen-antibody reaction. C. secreting platelets that engulf foreign particles so they may be excreted. D. producing monoblasts that increase the amount of hemoglobin in the blood.
Level: Factual Taylor - Chapter 02 #23
24. (p. 25) Some individuals are unable to produce thromboplastin and fibrin. This condition is associated with a clotting disorder called A. arteriosclerosis. B. anemia. C. leukopenia. D. hemophilia.
Level: Factual Taylor - Chapter 02 #24

 25. (p. 26) The exchange of oxygen and carbon dioxide during respiration occurs between the A. bronchi and the capillaries. B. alveoli and the capillaries. C. alveoli and the arteries. D. bronchioles and the alveoli.
Level: Factual Taylor - Chapter 02 #25
26. (p. 27) involves a condition in which the alveoli become dilated, atrophied, and thin so that elasticity is lost and exhalation becomes difficult. A. Bronchial pneumonia B. Pleurisy C. Tuberculosis D. Pulmonary emphysema
Level: Factual Taylor - Chapter 02 #26
27. (p. 29) The pancreas plays an important role in digestion, because it is responsible for secreting A. bile. B. insulin. C. pepsin. D. bolus.
Level: Factual Taylor - Chapter 02 #27
28. (p. 29) During the digestive process, the absorption of food takes place primarily in the A. stomach. B. duodenum. C. small intestine. D. large intestine.
Level: Factual Taylor - Chapter 02 #28

29. (p. 30) The regulate(s) bodily fluids by removing surplus water, surplus electrolytes, and the waste products generated by the metabolism of food. A. urethra B. bladder C. ureters D. renal system
Level: Factual Taylor - Chapter 02 #29
30. (p. 31) The female hormone, estrogen, A. is secreted by the anterior pituitary. B. is associated with lactation. C. is produced during the second half of the menstrual cycle. D. leads to the development of secondary sex characteristics in the female.
Level: Factual Taylor - Chapter 02 #30
31. (p. 32) The male hormone, testosterone, A. brings about the production of sperm. B. brings about the secondary sex characteristics in the male. C. is produced by the interstitial cells of the testes. D. All of these.
Level: Factual Taylor - Chapter 02 #31
32. (p. 33) Which of the following is NOT a reproductive disorder? A. infertility B. Menopause C. AIDS D. None of these.
Level: Factual Taylor - Chapter 02 #32

- 33. (p. 33) The genetic composition of a normal male child is
- A. 46 chromosomes, two of which are sex chromosomes (XX).
- **B.** 46 chromosomes, two of which are sex chromosomes (XY).
- C. 23 chromosomes, two of which are sex chromosomes (XX).
- D. 23 chromosomes, two of which are sex chromosomes (XY).

Level: Conceptual Taylor - Chapter 02 #33

- 34. (p. 33) Which of the following research methods are designed to investigate the relative importance of genetic and environmental factors that contribute to developing medical disorders?
- A. studies of identical twins and fraternal twins
- B. studies of identical twins reared apart
- C. studies of adopted children
- **D.** All of these.

Level: Conceptual Taylor - Chapter 02 #34

- 35. (p. 33) Prenatal diagnostic tests are currently available that help detect
- A. epilepsy.
- B. breast and colon cancer.
- C. Huntington's disease.
- D. None of these.

Level: Conceptual Taylor - Chapter 02 #35

- 36. (p. Box 2.1, Page 36) The case of Helen, who is healthy but has infected others with the AIDS virus, is an example of
- A. direct transmission of disease.
- B. indirect transmission of disease.
- C. biological transmission of disease.
- **<u>D.</u>** mechanical transmission of disease.

37. (p. 35) The course of infection follows a specific sequence; that is

A. incubation period, period of nonspecific symptoms, acute phase, period of decline.

- B. period of nonspecific symptoms, incubation period, acute phase, period of decline.
- C. acute phase, incubation period, period of nonspecific symptoms, period of decline.
- D. incubation period, acute phase, period of decline.

Level: Factual Taylor - Chapter 02 #37

38. (p. 35) A localized infection

A. is confined to a particular site and does not spread.

- B. is confined to a particular area and sends toxins to other parts of the body.
- C. occurs when the body's resistance is lowered from fighting a primary infection.
- D. affects several different areas.

Level: Factual Taylor - Chapter 02 #38

39. (p. 36) Nonspecific immunity may be mediated by the

A. skin.

B. phagocytes.

C. inflammatory response.

D. All of these.

Level: Factual Taylor - Chapter 02 #39

40. (p. 37) Humoral immunity is mediated by

A. B lymphocytes.

- B. helper and suppressor T cells.
- C. B cells and helper and suppressor T cells.
- D. All of these.

41. (p. 37) Cell-mediated immunity is mediated by

- A. B cells.
- **B.** T_C and T_H cells.
- C. B cells and helper and suppressor T cells.
- D. All of these.

Level: Factual Taylor - Chapter 02 #41

42. (p. 38) The spleen

- A. secretes insulin and bile into the bloodstream.
- B. produces neurotransmitters and corticosteroids.
- **C.** aids in the production of B and T cells and filters the blood.
- D. is primarily a vestigial organ.

Level: Factual Taylor - Chapter 02 #42

43. (p. 28) Hodgkin's disease involves

- A. a tropical viral infection.
- **B.** the progressive, chronic enlargement of tissues of the lymphatic system.
- C. a viral disorder marked by a large number of monocytes.
- D. None of these.

Level: Factual Taylor - Chapter 02 #43

44. (p. 390) Autoimmunity

- A. involves the progressive, chronic enlargement of lymphatic tissue.
- B. is a viral disorder marked by an unusually large number of monocytes.
- C. is acquired through measures such as vaccination.
- **<u>D.</u>** is a condition in which a specific humoral or cell-mediated immune response attacks the body's own tissue.

45. (p. 40-39) Autoimmunity may be implicated in A. systemic lupus erythematosis. B. arthritis. C. multiple sclerosis. **<u>D.</u>** All of these.

Level: Factual Taylor - Chapter 02 #45

46. (p. 16) Regulation of the autonomic nervous system occurs via the sympathetic nervous system and the parasympathetic nervous system.

TRUE

Level: Factual Taylor - Chapter 02 #46

47. (p. 16) The parasympathetic nervous system is activated in individual responses to stress.

FALSE

Level: Factual Taylor - Chapter 02 #47

48. (p. 18) The structures of the limbic system play an important role in emotion.

TRUE

Level: Factual Taylor - Chapter 02 #48

49. (p. 20) The endocrine system is responsible for fast-acting, short-duration responses to changes in the body.

FALSE

Level: Factual Taylor - Chapter 02 #49

50. (p. 23) The two primary clinical manifestations of atherosclerosis are angina pectoris and congestive heart disease.

FALSE

51. (p. 30) Hepatitis A is typically transmitted through food and water. **TRUE** Level: Factual Taylor - Chapter 02 #51 52. (p. 33) Menopause can be cured definitively by hormone therapy. **FALSE** Level: Factual Taylor - Chapter 02 #52 53. (p. 33) There appears to be a genetic contribution to coronary heart disease and some forms of cancer. **TRUE** Level: Factual Taylor - Chapter 02 #53 54. (p. 37) Antigens are proteins produced in response to stimulation by antibodies. **FALSE** Level: Factual Taylor - Chapter 02 #54 55. (p. 39) Compared to women, men are at greater risk of contracting autoimmune disease. **FALSE** Level: Factual Taylor - Chapter 02 #55 56. (p. 18-20) Describe and discuss the two most common disorders of the nervous system.

Answers will vary

57. (p. 21-232) Describe the structure and function of the cardiovascular system. Include in your answer the internal and external factors influencing heart rate and the impact on heart functioning.

Answers will vary

Level: Conceptual Taylor - Chapter 02 #57

58. (p. 30) Describe the nature and symptoms of hepatitis. Compare and contrast Hepatitis A and Hepatitis B, including discussion of the cause and mode of transmission.

Answers will vary

Level: Applied Taylor - Chapter 02 #58

59. (p. 34) Discuss the role of genetic counseling. Why is it controversial? How can it be used effectively by health psychologists?

Answers will vary

Level: Applied Taylor - Chapter 02 #59

60. (p. 36) Compare and contrast nonspecific and specific immune mechanisms. Provide an example of each.

Answers will vary

Level: Applied Taylor - Chapter 02 #60

c2 Summary

<u>Category</u>	# of Questions
Level: Applied	4
Level: Conceptual	10
Level: Factual	46
Taylor - Chapter 02	60