# **Anatomy And Physiology 9th Edition Patton Test Bank**

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# **Chapter 02: Homeostasis**

# Patton: Anatomy and Physiology, 9th Edition

## MULTIPLE CHOICE

1.	Of the 11 major bota. Circulatory b. Endocrine c. Lymphatic d. Reproductive	ody syst	ems, which is	the lea	ast invo	olved in mair	taining hom	eostasis?
	ANS: D	DIF:	Application	REF:	p. 25	TOP	System Lev	vel
2.	Homeostasis can be a. a constant state b. a state of relation to the changes in book	e mainta ve cons he exter	ined by living tancy. nal environm		onlivin	g organisms		
	ANS: B	DIF:	Application	REF:	p. 24	TOP	Homeostas	is
3.	Which of the follo a. Effector mecha b. Transmitter c. Sensor d. Integrating cer	anism	not one of the	e basic	compo	nents in a fe	edback contr	rol loop?
	ANS: B TOP: Basic Compo		Memorization Control Mech			REF:	p. 26	
4.	The body's thermo a. heart. b. cerebellum. c. pituitary. d. hypothalamus.		ocated in the:					
	ANS: D TOP: Basic Compo		Memorization Control Mech			REF	p. 27	
5.	The contraction of a. negative b. positive c. inhibitory d. deviating	the uter	rus during the	e birth (	of a bab	y is an exam	ple of	_ feedback.
	ANS: B TOP: Positive-Feed		Memorization ontrol Systems			REF:	p. 28	
6.	Negative-feedback a. minimize chan b. maintain home	ges in b		levels.				

	<ul><li>c. are responsible for an increased rate of sweating when air temperature is higher than body temperature.</li><li>d. All of the above are correct.</li></ul>				
	ANS: D DIF: Memorization TOP: Negative-Feedback Control Systems	REF:	p. 27		
7.	<ul> <li>Pathogenesis can be defined as:</li> <li>a. a specific disease.</li> <li>b. a group of diseases.</li> <li>c. the course of disease development.</li> <li>d. a subgroup of viruses.</li> </ul>				
	ANS: C DIF: Memorization TOP: Disease Terminology	REF:	p. 32		
8.	Intracellular parasites that consist of DNA or RNA surround sometimes by a lipoprotein envelope are called:  a. viruses.  b. bacteria.  c. fungi.  d. protozoa.	ed by a	a protein coat and		
	ANS: A DIF: Memorization TOP: Basic Mechanisms of Disease	REF:	p. 32		
9.	The term that literally means self-immunity is: a. autoimmunity. b. homoimmunity. c. passive immunity. d. active immunity.				
	ANS: A DIF: Memorization TOP: Basic Mechanisms of Disease	REF:	p. 33		
10.	Epidemiology is the study of the of diseases in human a. occurrence b. distribution c. transmission d. All of the above are correct.	ı popul	ations.		
	ANS: D DIF: Memorization TOP: Disease Terminology	REF:	p. 25		
11.	Which of the following may put one at risk for developing a a. Environment b. Stress c. Lifestyle d. All of the above	given	disease?		
	ANS: D DIF: Memorization TOP: Mechanisms of Disease	REF:	p. 34		

12.	Negative-feedback control systems:  a. oppose a change.  b. accelerate a change.  c. have no effect on the deviation from set point.  d. establish a new set point.
	ANS: A DIF: Memorization REF: p. 27 TOP: Negative-Feedback Control Systems
13.	Positive-feedback control systems:  a. have no effect on the deviation from set point.  b. accelerate a change.  c. ignore a change.  d. do not exist in human systems.
	ANS: B DIF: Memorization REF: p. 28 TOP: Positive-Feedback Control Systems
14.	Shivering to try to raise your body temperature back to normal would be an example of:  a. the body trying to maintain homeostasis.  b. a positive-feedback mechanism.  c. a negative-feedback mechanism.  d. both A and C.
	ANS: D DIF: Synthesis REF: p. 27 TOP: Homeostasis/Negative-Feedback Control Systems
15.	Eponyms are scientific terms that:  a. sound alike but are spelled differently.  b. can have more than one meaning.  c. are based on a person's name.  d. are none of the above.
	ANS: C DIF: Memorization REF: p. 32 TOP: The Language of Science and Medicine
16.	Which of the following is a protein substance with no DNA or RNA and is thought to be the cause of mad cow disease?  a. Virus  b. Bacteria c. Prion d. Protozoan
	ANS: C DIF: Memorization REF: p. 32 TOP: Pathogenic Organisms
17.	Of the pathogenic organisms, which of the following are the most complex?  a. Viruses  b. Tapeworms  c. Bacteria  d. Protozoa
	ANS: B DIF: Memorization REF: p. 33

TOP: Pathogenic Organisms

- 18. If the secretion of oxytocin during childbirth operated as a negative-feedback control loop, what effect would it have on uterine contractions?
  - a. Oxytocin would stimulate stronger uterine contractions.
  - b. Oxytocin would inhibit uterine contractions.
  - c. There would be no changes in the strength of the uterine contractions.
  - d. Uterine contractions would initially be weak and then gain strength after the release of the hormone.

ANS: B DIF: Application REF: p. 28

TOP: Positive-Feedback Control Systems

- 19. Intrinsic control:
  - a. usually involves the endocrine or nervous system.
  - b. operates at the cellular level.
  - c. is sometimes called autoregulation.
  - d. operates at the system or organism level.

ANS: C DIF: Memorization REF: p. 30

TOP: Levels of Control

#### **MATCHING**

Match each term with its corresponding definition or explanation

- a. Prion
- b. Tumor
- c. Fungi
- d. Gene mutation
- e. Bacteria
- f. Virus
- g. Protozoa
- 1. An intracellular parasite that consists of an RNA or DNA core surrounded by a protein coat
- 2. A type of protein that converts normal protein in the nervous system into abnormal proteins that cause loss of function
- 3. A tiny, primitive cell that lacks a nucleus and can cause infection
- 4. An abnormal growth or neoplasm
- 5. Altered DNA that causes abnormal proteins to be made that do not perform their intended function
- 6. A one-celled organism whose DNA is organized into a nucleus that can parasitize human tissue
- 7. Simple organisms that are similar to plants but lack chlorophyll, which allows plants to make their own food; because these organisms cannot make their own food, they parasitize human tissue

1. ANS: F DIF: Memorization REF: p. 32

TOP: Basic Mechanisms of Disease

2. ANS: A DIF: Memorization REF: p. 32

TOP: Basic Mechanisms of Disease

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3. ANS: E DIF: Memorization REF: p. 32

TOP: Basic Mechanisms of Disease

4. ANS: B DIF: Memorization REF: p. 32

TOP: Basic Mechanisms of Disease

5. ANS: D DIF: Memorization REF: p. 32

TOP: Basic Mechanisms of Disease

6. ANS: G DIF: Memorization REF: p. 33

TOP: Basic Mechanisms of Disease

7. ANS: C DIF: Memorization REF: p. 32

TOP: Basic Mechanisms of Disease

#### **SHORT ANSWER**

1. Diagram a homeostatic control mechanism, including the three basic components.

ANS:

Answers will vary.

DIF: Synthesis REF: p. 26 TOP: Homeostatic Control Mechanisms

2. How does childbirth demonstrate positive feedback?

ANS:

Answers will vary.

DIF: Synthesis REF: p. 28 TOP: Positive-Feedback Control Systems

3. Give an example of how categories of risk factors or predisposing conditions could overlap.

ANS:

Answers will vary.

DIF: Synthesis REF: p. 32 TOP: Basic Mechanisms of Disease

4. Explain the feed-forward control system, and give an example of one in the body.

ANS:

Answers will vary.

DIF: Application REF: p. 30 TOP: Feed-Forward in Control Systems

#### **ESSAY**

1. Give an example of a system, either living or nonliving, that is designed to maintain a relatively constant condition by using a negative-feedback mechanism. Explain briefly how the system works to accomplish this.

ANS:

Answers will vary.

DIF: Synthesis REF: p. 27 TOP: Basic Components of Control Mechanisms