

## Chapter 42 Circulation and Gas Exchange

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New questions in Chapter 42 are especially at the Application/Analysis and Synthesis/Evaluation levels and include a good deal more on adaptations and human disorders than was included in the 7th edition.

### Multiple-Choice Questions

1) What would be expected if the amount of interstitial fluid surrounding the capillary beds of the lungs were to increase significantly?

- A) The amount of carbon dioxide entering the lungs from the blood would increase.
- B) The amount of oxygen entering the circulation from the lungs would increase.
- C) The amount of oxygen entering the circulation from the lungs would decrease.
- D) The pressure would cause the capillary beds to burst.
- E) Both C and D would be expected.

Answer: C

Topic: Concept 42.1

Skill: Application/Analysis

2) Organisms in which a circulating body fluid is distinct from the fluid that directly surrounds the body's cells are likely to have which of the following?

- A) an open circulatory system
- B) a closed circulatory system
- C) a gastrovascular cavity
- D) branched tracheae
- E) hemolymph

Answer: B

Topic: Concept 42.1

Skill: Knowledge/Comprehension

3) In which animal does blood flow from the pulmocutaneous circulation to the heart before circulating through the rest of the body?

- A) annelid
- B) mollusc
- C) fish
- D) frog
- E) insect

Answer: D

Topic: Concept 42.1

Skill: Knowledge/Comprehension

4) Which of the following are the only vertebrates in which blood flows directly from respiratory organs to body tissues without first returning to the heart?

- A) amphibians
- B) birds
- C) fishes
- D) mammals
- E) reptiles

Answer: C

Topic: Concept 42.1

Skill: Knowledge/Comprehension

## Answer Section 42 Circulation

**West Virginia**

## Answer Section 42 Circulation:

1001 Questions and Answers on Physiology and Hygiene Benjamin Adams Hathaway,1887      **Theoretical**

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