

**KEY For Quiz A****1 B, 2 D, 3 E, 4 D, 5 C, 6 C, 7 C, 8 C, 9 D, 10 A, 11 B, 12 A, 13,D, 14 D.**

Quiz A. Each question is worth 2 pts unless indicated otherwise.

The following questions refer to the diagram. Each question is worth 1 point. Bubble in the correct answer on your scantron. Answers may be used more than once, or not at all.

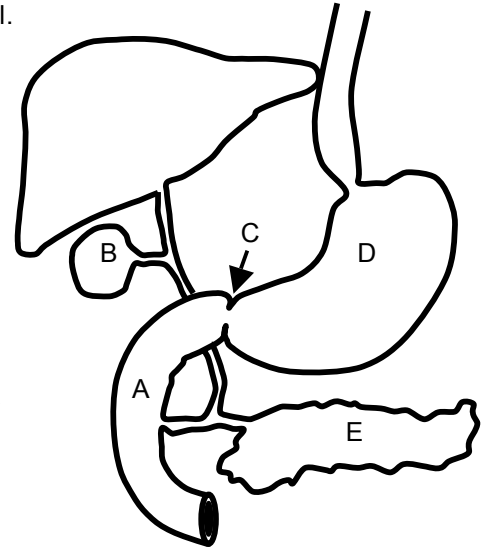
1) Where is the gall bladder? \_\_\_\_\_

2) It secretes pepsinogen. \_\_\_\_\_

3) It secretes enterokinase. \_\_\_\_\_

4) It is necessary to neutralize gastric acid in the duodenum because

- A. the strong acids may damage the intestinal epithelium
- B. the strong acids may damage the gastric epithelium
- C. pancreatic enzymes must work near neutral pH
- D. A and C are correct
- E. All are correct



5) The following components can be found in some epithelial cells, except

- A. Tight junctions
- B. Polarized plasma membranes
- C. Hemoglobin
- D. Microvilli
- E. Digestive enzymes (active or inactive form)

6) Which of the following fibers are responsible for the resistant property of tendons?

- A. elastin fibers
- B. fibrin fibers
- C. collagenous fibers
- D. reticular fibers
- E. spindle fibers

7) 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

8) The two types of circulation in the body are systemic circulation and \_\_\_\_\_ circulation:

- A. enteric
- B. portal
- C. pulmonary
- D. regional
- E. ventricular

Name \_\_\_\_\_

Section # \_\_\_\_\_

- 9) What is not true about Fick's first law of diffusion?
- A. the rate of diffusion increases with greater area
  - B. diffusion occurs in less than a second within cells that are less than 10 micrometers in diameter
  - C. the rate of diffusion increases with greater concentration
  - D. the rate of diffusion decreases with higher diffusion coefficient
  - E. the rate of diffusion decreases with greater distance
- 10) Which of the following normally contains the highest concentration of oxygen?
- A. inhaled air
  - B. air leaving the lungs
  - C. air in the alveoli
  - D. body cells
  - E. blood entering the lungs
- 11) The majority of CO<sub>2</sub> is transported in the blood
- A. by hemoglobin
  - B. as HCO<sub>3</sub><sup>-</sup>
  - C. in association with oxygen
  - D. bound to heme iron
  - E. bound to fetal hemoglobin.
- 12) The B cells that produce antibodies are members of a class of defensive cells known as
- A. lymphocytes
  - B. macrophages
  - C. mast cells
  - D. membrane cells
  - E. reticuloendothelial cells
- 13) Which of the following non-specific responses would most likely be the most effective at preventing an infection?
- A. the alveolar epithelium
  - B. activated T helper cells
  - C. plasma cells
  - D. the skin of your fingers
  - E. both B and C
- 14) Which of the following would be considered to be part of the internal non-specific defense system?
- A. T helper cells
  - B. T cytotoxic cells
  - C. tears
  - D. inflammatory response
  - E. humoral response