

## Ch17 Worksheet

Name \_\_\_\_\_

**Instructions:** Follow along in class and read chapters 17 in the openstax microbiology textbook (only the topics covered in lecture) to complete this worksheet. Submit the worksheet via moodle – it can be in the form of a word document, PDF, or image (if you choose to print and write by hand). It is worth 5 points: **your grade will be based on completion, not accuracy** so try your best. This worksheet also serves as your study guide. Late work for worksheets is accepted at any point during the semester. Once you submit your worksheet you can download the worksheet key.

- 1) Compare and Contrast innate and adaptive immunity
  - a. Both play a role in preventing disease
  - b. Innate immunity is non-specific, fast, general mechanisms with no memory
  - c. Adaptive immunity is specific to a particular pathogen, which it remembers and is slow
  
- 2) Describe the three types of barriers of innate immunity that form the first line of defense.
  - a. Mechanical barriers – skin, epithelial cell barriers, air/liquid flow, mucus
  - b. Chemical Barriers – antimicrobial peptides, Low pH, enzymes
  - c. Microbial barriers- normal microbiota
  
- 3) What is a phagocyte? What types of cells function as phagocytes?
  - a. Phagocytes are cells that can perform phagocytosis (engulf bacteria, foreign particles, dead cells)
  - b. Neutrophils, monocytes, macrophages, dendritic cells
  
- 4) List the steps of phagocytosis
  - a. Chemotaxis and adherence
  - b. Ingestion
  - c. Microbe contained in phagosome
  - d. Lysosomal fusion
  - e. Discharge of waste materials
  
- 5) What is a pyrogen?
  - a. Substance that causes fever
  
- 6) What is the complement system? What are the three possible outcomes of complement activation?
  - a. Group of proteins that enhance other immune responses
  - b. Enhance phagocytosis
  - c. Induce inflammation
  - d. Cause bacterial lysis
  
- 7) What causes the four cardinal signs of inflammation?
  - a. Redness – increased blood flow
  - b. Heat – increased blood flow
  - c. Swelling – blood vessels become leaky allowing fluid to enter the area
  - d. Pain – excess fluid pushes on pain receptors, toxins damage cells which activate pain receptors

# Chapter 17 Worksheet Answer Key

**R Barnett**



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