

# Study Guide B

## Answer Key

### SECTION 3. CELL MEMBRANE

1. Student should draw and label: phosphate group; glycerol; fatty acid.
2. the charged phosphate and glycerol
3. the fatty acid tails
4. polar
5. outside the cell because of the extracellular fluid and inside the cell because of the cytoplasm
6. The polar heads interact with the watery environments both inside and outside the cell. The nonpolar tails interact with each other inside the membrane.
7. strengthen the cell membrane
8. help materials cross the membrane, part of the cytoskeleton
9. help identify cell types
10. The phospholipids in each layer can move from side to side and slide past each other.
11. Refer to Figure 3.2 for visual answer.
12. receptor
13. ligand
14. intracellular
15. membrane, changes
16. The fluid mosaic model is a description of the arrangement of the molecules that make up a cell membrane. It emphasizes both the fluidity of the membrane and the variety of molecules that make up the membrane.
17. selective permeability

### Section 4. Diffusion and Osmosis

1. the difference in the concentration of a substance from one location to another
2. The molecule diffuses from an area of higher concentration into an area of lower concentration.
3. diffusion
4. osmosis

5. the movement of molecules down a concentration gradient
6. the natural motion of particles
7. energy from the cell
8. lower
9. hypertonic
10. hypotonic
11. It occurs through selective transport proteins, not simply across the membrane.
12. down a concentration gradient
13. concentration gradient
14. Just as a hyper person has a higher level of energy than most people, a hypertonic solution has a higher level of solutes than the solution it is being compared to.
15. The transport protein makes it easier for a molecule that cannot directly cross the cell membrane to enter or exit a cell.

### SECTION 5. ACTIVE TRANSPORT, ENDOCYTOSIS, AND EXOCYTOSIS

1. Active transport is the movement of molecules against a concentration gradient, whereas any type of diffusion is the movement of molecules down a concentration gradient.
  2. Both involve the movement of molecules through selective membrane proteins.
  3. All transport proteins span the membrane, and most change shape when they bind to a target molecule or molecules.
  4. Active transport proteins use chemical energy to move a substance against its concentration gradient.
  5. Refer to Figure 5.1 for visual answer.
  6. ATP
  7. vesicles
  8. lysosomal enzymes
- Y diagram:** *Endocytosis*—uses energy, takes substances into a cell, moves substances in vesicles; *Exocytosis*—uses energy, releases substances outside a cell, moves substances in vesicles; *Both*—use energy, move substances in vesicles.
9. phagocytosis
  10. Exocytosis is a process that releases substances outside a cell. Endocytosis is a process that takes substances into a cell.
  11. active transport

# Section 5 Multicellular Study Guide B Answers

**R Bogdan**



## **Section 5 Multicellular Study Guide B Answers:**

The Top Books of the Year Section 5 Multicellular Study Guide B Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Section 5 Multicellular Study Guide B Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Section 5 Multicellular Study Guide B Answers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Section 5 Multicellular Study Guide B Answers : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://crm.avenza.com/public/detail/HomePages/Praxis%20516tennessee%20Raw%20Score.pdf>

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USER MANUAL - SRV02 Rotary Servo Base Unit The Quanser SRV02 rotary servo plant, pictured in Figure 1.1, consists of a

DC motor that is encased in a solid aluminum frame and equipped with a planetary ... SRV02 Position Control using QuaRC

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