

Answer Key

Note: Graphic Organizer answers are suggestions only and may not match students' answers exactly.

Preview Test

01

1. (B) 2. (D) 3. (A)
4. (A) 5. (B) 6. (A)

02

7. (D) 8. (A) 9. (B)
10. (C) 11. (B)
12.

	YES	NO
Elongated subjects	✓	
Highly realistic		✓
Representative of Renaissance art		✓
Inspired by his imagination	✓	

03

13. (B) 14. (D) 15. (B)
16. (B) 17. (D)

Chapter 1 Main Idea Questions

01 Linguistics

The Transactional Model of Language Acquisition	
Points	Examples
Language environment affects one's language acquisition	Child might learn an accent based on where he/she learns the language
Learner can influence his/her environment	Language learner may use certain words/phrases that are adopted by others

1. (D) 2. (B)

Summary: The transactional linguistic model helps linguists understand the process of language acquisition. The theory says that the learner is influenced by his or her environment. It also says that the learner can have a similar effect on other students within the environment.

02 History

Alexander the Great and Greek Culture	
Contributions	
Had a policy of fusion for foreigners	His notoriety gained many admirers in other countries
Had his Greek generals marry Persian noblewomen	Ancient Romans spoke Greek in an attempt to associate themselves with Greece

1. (C) 2. (D)

Summary: Alexander the Great spread Greek culture to many parts of the world. To promote cultural assimilation, he had his generals marry Persian women. The professor also mentions Alexander's notoriety, giving the example of Romans trying to associate themselves with Greece by speaking Greek.

03 Office Hours

Problem	Solution
Student is unhappy with professor's teaching style	Professor agrees to consider changing class discussions

1. (C) 2. (A)

Summary: The student goes to see the professor because she thinks she is not spending time effectively in the class. In particular, the student thinks that the group discussions waste time. She feels that class time could be better spent by listening to lectures. The professor agrees to think about changing the way he teaches the class.

04 Service Encounter

Problem	Solution
Student is unable to connect to the campus network	Woman helps student get network password and connect to network

1. (D) 2. (C)

Summary: The student called the employee because he needs help connecting to the campus network. The woman discovers that the student has not yet received a network password. The woman walks the student through the steps of obtaining a password and logging-on to the network.

05 Literature

Emily Dickinson vs. Her Female Contemporaries		
Emily Dickinson	Both	Female
<ul style="list-style-type: none"> • Unique style—used unconventional punctuation and grammar • Wrote on importance of self and emotion 	<ul style="list-style-type: none"> • Same literary period 	<ul style="list-style-type: none"> • Standard grammar • Wrote about religious themes

1. (B) 2. (B)

Summary: The lecture compares the poetry of Emily Dickinson to that of other poets of her era. The student says that Dickinson’s style is marked by unusual punctuation. The professor adds that she used unusual grammatical patterns as well. The professor also says that Dickinson focused on very personal themes, while other writers focused primarily on religion.

06 Medical Science

Diseases in the Past	
Cause	Effect
Lack of understanding of infectious diseases	Spread of infectious diseases and higher mortality rates
Lack of immunity due to little to no access to vaccinations or no exposure to foreign diseases	

1. (C) 2. (C)

Summary: The professor discusses why diseases that are treatable today once killed so many people. The first reason mentioned is the lack of understanding of how diseases are transmitted. Another factor is the lack of immunity to certain types of diseases within some populations.

07 Office Hours

Problem	Solution
Student is worried that professor’s class will repeat material from another class	Professor assures student that material will be more advanced in her class

1. (A) 2. (B)

Summary: The student approaches the professor to ask about what material will be covered in the class. He is concerned because the professor assigned the same book that is used in an introductory course. The professor reassures the student that new information will be covered in her course.

08 Service Encounter

Problem	Solution
Student wants information about university meal plans and wants to to change plans	Employee suggests plan with fewer meals

1. (C) 2. (C)

Summary: The conversation takes place in the Dining Services administrator’s office. The student asks for more information about the university meal plans. The administrator explains that as a freshman, he must remain enrolled in one of the three campus meal plans. The student listens to the information and chooses a plan with fewer meals than the default plan.

09 Geology

Types of Landslide Processes	
Types	Characteristics
Creep	Rocks move slowly down slope Water can affect speed
Debris Flow	Faster than creep Excess water causes soil to slip
Debris Avalanche	Very fast Very dangerous to landscapes

1. (A) 2. (A)

Summary: The professor discusses the three different types of landslides, beginning with creep, which moves slowly and can be affected by water. The professor then discusses debris flow, which moves faster than creep and is caused by soil being saturated with water. The professor then describes a debris avalanche, which follows the same process as creep but moves much faster and causes more destruction.

10 Zoology

Play-fighting in Animals	
Reason	Example
To learn to fight and hunt	Wolf mothers encourage fighting as a learning tool
To establish who will be the leader	Wolves fight to determine who will be alpha male

1. (C) 2. (B)

Summary: The professor gives reasons for play-fighting, which is when animals appear to be fighting, but are actually just playing with each other. The first function of play-fighting is to help animals learn to fight and hunt later in life. The professor also says that animals fight to establish who the leader is.

Chapter 2 Detail Questions

01 Sociology

Dyads	
Definition	Characteristics
Groups of just two people	Intense because each member's attention is focused on other member
	Unstable because if one person leaves, group is finished

1. (B) 2. (D) 3. (D)

Summary: The professor discusses dyads, which are groups of two people. This type of group is very unique for two reasons. First, it is an intense relationship, since each member has only the other member to focus on. Second, it is a very unstable group—if one person leaves, the group is finished.

02 Psychology

Children and Panic Disorder	
Theory	Support
There is a link between awareness of one's body and development of panic disorder	The ability to guess one's heart rate was linked to development of panic disorder
	Some who react strongly to pain will develop panic disorder because they think their bodies are being attacked

1. (B) 2. (D) 3. (A)

Summary: The professor discusses a theory that links panic disorder with being aware of one's body. The professor describes the study, in which children were asked to guess their heart rates. The study showed that the children that guessed their heart rates accurately were more likely to have anxiety. The professor also discussed how people who worry when they feel pain can develop panic disorder.

03 Office Hours

Problem	Solution
Student wants to improve grades	Do better on next exam
	Study main points of book and lectures
	Visit professor to clarify main points

1. (B) 2. (C) 3. (D)

Summary: The student goes to see the professor because he is worried that he is not doing well in the class. The professor suggests that he try to do well on the final exam. In addition, the professor suggests studying only the main points. The professor also recommends that the student meet with her to talk about the material on the clear up any remaining confusion about the material.

04 Service Encounter

Problem	Solution	Options
Student needs a journal but cannot find it	Librarian suggests interlibrary loan	University library—fast but high demand
		Public library—slow but less demand

1. (C) 2. (A) 3. (B)

Summary: A student needs a science journal at the library but cannot find it. The librarian suggests something called an interlibrary loan, which is a system that allows the library to borrow books and journals from other libraries. She can look for the journal at a public library, where it will probably be in stock. However, the student asks her to look at a university library, which will be faster.

05 Botany

Diseases Affecting Roses	
Disease 1: Black Spot	Disease 2: Rose Rust
Characteristics	
Round black spots on leaves	Orange spots on leaves, orange dust
Weakened plant	Brown growths

1. (A), (B) 2. (A) 3. (C)

Summary: Roses are vulnerable to various diseases that are caused by fungi, bacteria, and viruses. One of the diseases is called black spot, which causes round black spots to appear on the leaves, causing eventual damage to the entire plant. Another disease called rose rust causes orange spots to appear on the leaves, as well as the stems.

06 Anthropology

Tenochtitlan	
Theory	Support
Some civilizations adapt environment to their needs	Aztecs built floating gardens to expand in uninhabitable swamplands
	Aztecs built aqueducts to provide fresh water to area surrounded by swamp

1. (B) 2. (A) 3. (C)

Summary: The professor discusses how ancient civilizations sometimes had to adapt to environments that were difficult to live in. The Aztecs adapted to their environment in a couple of different ways. They had to build floating gardens over the swampland to make room for people to live. Second, they built aqueducts to provide fresh water to their city, which was surrounded by salty water.

07 Office Hours

"Introduction to International Relations" vs. "Representations of Race and Politics"		
International Relations	Both	Race and Politics
• Easier class	• Political science classes	• Advanced
• Less interesting to student	• Student has interest	• More personally relevant

1. (D) 2. (B) 3. (A)

Summary: The student goes to the professor's office for advice. The student cannot decide which class to take. She likes both classes, though one class is more appropriate for her level of study. However, the other class is more interesting to her. The professor recommends the more advanced class.

08 Service Encounter

Problem	Solution
Student has class fee that scholarship will not cover	Worker suggests student apply for other scholarships

1. (D) 2. (B) 2. (A)

Summary: The student did not realize that certain university classes had fees, and she now has a \$200 fee she can't pay. She doesn't know how she will pay in the future. The student did not know that she could apply for more than one scholarship, so the worker advises her to research additional scholarships.

09 Political Science

Absolute Monarchy	
Advantage	Support
Creates stronger government	Catherine the Great made many changes because she could do whatever she wanted
No need for elections	Many people in the past were illiterate, absolute monarchy simplified succession

1. (C) 2. (C) 3. (A)

Summary: The professor discusses the advantages of absolute monarchies. First, absolute monarchies can give a good leader the power to make good changes. The professor uses the example of Catherine the Great. With an absolute monarchy there is no need for elections. This made government easier in the past, since many people could not read or write.

10 Music History

Celtic Bards	
Definition	Role
Celtic musicians who played instruments and sang	Helped pass on history by helping people remember stories

1. (A) 2. (B) 3. (A)

Summary: The lecture defines bards as musicians that played instruments and sang. Bards are a part of Celtic culture and had an important role in its history. The professor discusses the role of bards, saying that they helped the people remember the stories that described their history. The catchy qualities of music helped the people remember the stories.

| Vocabulary Review 1 |

1. (C) 2. (A) 3. (A)
 4. (B) 5. (A) 6. (D)
 7. (D) 8. (C)
 9. (D) 10. (B) 11. (D)
 12. (C) 13. (B) 14. (C)
 15. (A)
 16. tuition 17. fees 18. contract
 19. extensions 20. disenrolled
 21. (E) 22. (A) 23. (C)
 24. (B) 25. (D)

| Mini Test 1 |

1. (C) 2. (B) 3. (D)
 4. (A), (B) 5. (C) 6. (A)
 7. (D) 8. (C) 9. (A)
 10. (B) 11. (A), (D) 12. (D)
 13. (A)
 14. (C) 15. (B) 16. (C)
 17. (B) 18. (B)

Chapter 3 Function Questions

01 Literature

Genre	
Definition: A category of art, literature, or music	
Example 1: Tragedy	Example 2: Comedy
Definition: A heroic character encounters bad fortune	Definition: People become confused through misunderstandings
Example: Medea with her tragic flaw – jealousy	Example: <i>A Midsummer Night's Dream</i> – people fall in love with anyone they see

1. (A) 2. (B) 3. (D)

Summary: The professor defines a genre as a category of art, music, or literature. She mentions two different genres. First, tragedy features a hero who experiences bad things due to a flaw in his or her character. Euripides was a writer of tragedy. The professor also mentions comedy, which dealt with misunderstandings. Shakespeare wrote lighthearted comedies about confusion in love.

02 History

The Sea Dogs	
Definition	Example
English pirates that attacked Spanish ships	Stole gold from Spanish ships to harm King Philip
	Took over Spanish ports in the name of England

1. (C) 2. (A) 3. (C)

Summary: The professor discusses a group of English pirates called the Sea Dogs, who stole from Spanish ships. The Sea Dogs were hired by Queen Elizabeth of England. They stole money from Spanish ships to try to hurt King Philip. They also took over Spanish ports.

03 Office Hours

Problem	Solution
Student wants to change major	Professor suggests she make psychology her minor

1. (B) 2. (A) 3. (C)

Summary: The conversation takes place between a student and a professor. The student approaches the professor in order to ask his advice about her academic plan. She enjoyed his class, so now she is considering changing her major. The professor expresses concern that the student considering doing this so late in her academic career. He thinks that a minor in psychology might be better.

04 Service Encounter

Problem	Solution
Student needs help writing essay	Employee suggests finding a writing fellow

1. (C) 2. (A) 3. (C)

Summary: The student visits the Academic Support Center to request help with a paper. The coordinator suggests that he work with a writing fellow, who would be able to walk him through the entire essay-writing process. The student fills out an application, which the coordinator tells him will be used to find a writing fellow for him.

05 Environmental Science

The Water Cycle	
Step 1:	Evaporation
Description:	Water turns into water vapor
Step 2:	Condensation
Description:	Water vapor turns back to liquid
Step 3:	Advection
Description:	Water moves in air currents from ocean to land
Step 4:	Precipitation
Description:	Water falls back to Earth

1. (A) 2. (B) 3. (A)

Summary: The discussion is about the water cycle. The professor explains the process, beginning with evaporation, when water becomes water vapor. Next, the water condenses and turns into a liquid again. Advection is the third step, in which water moves in air currents. Last, precipitation happens when water falls back to Earth.

06 Psychology

The Tuckerman Model	
Step 1:	Forming
Description:	Group convenes and attempts to establish familiarity
Step 2:	Storming
Description:	Group members are in conflict as basic rules for operation are developed
Step 3:	Norming
Description:	Group matures and members are able to agree upon modes of operation
Step 4:	Performing
Description:	Group reaches a point where it can maximize strengths and be productive

1. (A) 2. (A) 3. (B)

Summary: The professor introduces the Tuckerman model and describes four stages in group development. The first is “forming,” which is when the group is first formed. The second is “storming,” which is the time of conflict as the group struggles within itself. In the third stage, “norming,” the group begins to mature and form shared values. The final stage is “performing,” which is when a mature group is able to work together in an effective manner.

07 Office Hours

Problem	Solution
Mistake in final exam schedule	Professor will try to find alternate time to offer exam

1. (B) 2. (A) 3. (A)

Summary: The conversation is between a student and a professor. The student points out to the professor that he has made a mistake in scheduling the final exam. The professor is surprised to learn of his mistake, but assumes that it will not change a lot for his students. The student does have a conflict, though. The professor agrees to ask the class if they can switch the exam time.

08 Service Encounter

Problem	Solution
Student needs housing for unusual period of time	Director agrees to let student live off-campus

1. (B) 2. (B) 3. (C)

Summary: The conversation takes place in the housing director’s office. The student has come there to request permission to live off-campus because he will be returning to campus at an unusual time. The director agrees to write a letter for the student granting permission for him to live off-campus.

09 Astronomy

Star Development			
Step 1: Protostar begins to contract	Step 2: Star reaches main sequence phase, begins hydrogen fusion	Step 3: Hydrogen fusion causes reactions, star gets brighter and hotter	Step 4: Star’s energy used up, begins to die

1. (B) 2. (A) 3. (B)

Summary: The process describes the different stages in the life of a star. First, the star begins life as a protostar when energy is created by atoms colliding. In the next stage, fusion in the star’s core begins, and the star becomes a main sequence star. Next, reactions cause the star to get hotter and brighter. Lastly, when the star runs out of energy, it begins to die.

10 Biology

Order <i>Cetecea</i>
Point 1: Dolphins, whales and porpoises
Point 2: Evolved about 50 million years ago
Point 3: No body hair—use blubber to keep warm

1. (A) 2. (D) 3. (B)

Summary: The discussion is about the Order *Cetecea*. The professor gives examples of animals included in the order. Cetaceans evolved from land animals about fifty million years ago. He describes some of the evidence indicating that cetaceans evolved from mammals. However, he points out that they have no body hair, unlike other mammals. They do not have external ears, either.

Summary: The professor presents the advantages and disadvantages of bio fuels, which are fuels that are derived from any sort of biological material, such as corn. Some of the advantages include less gas emissions and reduced pollution. On the other hand, they still contribute to global warming and use up agricultural land.

Chapter 4 Stance Questions

01 Literature

Realism and Henry James	
Theory	Support
Henry James was one of the first authors to create truly realistic characters	James used unreliable narrators who told lies like real people do
	James used a style called stream of consciousness to capture thought processes of characters

1. (C) 2. (C) 3. (D)

Summary: The professor discusses Henry James and his creation of realistic characters. James used something called an unreliable narrator to make his characters seem more like real humans. He also used a method called stream of consciousness, which resembles how people actually think.

02 Agriculture

Bio Fuels	
Advantages	Disadvantages
Renewable	Contribute to global warming when burned
Better for the environment than fossil fuels	Use land for agriculture

1. (A) 2. (A) 3. (A)

03 Office Hours

Parts of the Exam				
Multiple Choice			Essay Section	
20 questions	Basic concepts	Should be easy	Two essays	Require deep understanding of concepts

1. (C) 2. (D) 3. (B)

Summary: The student has missed a class where the professor went over material for an exam. He approaches the professor in order to get a better idea of what to expect on the exam. The professor explains that the exam has a simple multiple choice section and an in-depth essay section.

04 Service Encounter

Problem	Solution
Student needs a textbook, but it is too late in semester and bookstore does not have it	Student can make use of library to read material in book
	Student can purchase book from online bookseller

1. (D) 2. (A) 3. (D)

Summary: The student attempts to find a textbook at the university bookstore. An employee tells her that textbooks are no longer in stock this late into the semester. The student then asks him to recommend some stores that would carry the book and is advised to visit the library. Another option for the student is to make a purchase online.

05 Environmental Science

Invasive Species	
Problem (Cause)	Effect
Farmed salmon are escaping to the ocean and becoming invasive	Introduction of new parasites and diseases could lead to extinction of local salmon
	Increased competition for natural resources may cause serious problems

1. (C) 2. (C) 3. (A)

Summary: The professor discusses invasive species, which he defines as species of animals that enter environments they are not native to. The professor uses farmed salmon as an example of the effects that an invasive species can cause. First, these farmed fish introduce diseases that were not found in the ecosystem before they came. Second, the farmed fish increase competition for food and other resources.

06 History

The Gettysburg Address	
Theory	Support
Speech was so effective because it touched the audience emotionally	Reminded people about the importance of equality and freedom
	Used the word "nation" to bring the country together again
	Contained no new ideas, only familiar ones

1. (A) 2. (D) 3. (C)

Summary: The professor discusses why the Gettysburg Address, a speech by Abraham Lincoln, is so memorable. She says that it's largely because it appealed to people's emotions. Lincoln reminded people that they fought to secure freedom. He also said that the country would one day be reunited. Finally, he did not bring in any new concepts.

07 Office Hours

Problem	Solution
Student is ill and concerned grades will suffer	Go on medical leave and take class at another time
	Put class on hold and finish when he is better

1. (B) 2. (C) 3. (D)

Summary: The student has been ill and has missed a lot of classes, so he is worried that his grades will suffer. The professor suggests medical leave, but that will mean the student will lose his scholarship. The professor decides to give him an "O.H.," which means "On Hold" at the end of the semester. This will allow him to finish his coursework at some time in the future.

08 Service Encounter

Problem	Solution
Student wants to change rooms next semester	Participate in Residential Life Office's lottery system
	Move into own apartment off-campus

1. (B) 2. (C) 3. (A)

Summary: The student plans to move and asks about his options. He states that he would like to live off-campus. The employee explains how the process works and provides a form for the student to fill out. The student decides to apply for off-campus housing, but he will return the form later.

09 Biology

Scent Communication in Animals			
Cats use body scents		Ants use pheromones	
To show affection	To mark territory, objects, or people	To look for a mate	To call for help

1. (B) 2. (D) 3. (A)

Summary: The professor talks about how animals can communicate using smells. The professor first uses the example of cats and states that these animals will rub against things in order to show affection or to mark territory. The professor also talks about ants and says that they release chemicals to transmit different messages.

10 Environmental Science

Why Oceans are Salty	
Causes	
Rivers: 1. Rain water dissolves salt 2. Collects in rivers 3. Rivers dump slightly salty water into ocean	Hydrothermal vents: 1. Vents superheat water 2. Hot water dissolves salts 3. Salt goes back into ocean
Effect	
Ocean is salty	

1. (C) 2. (A) 3. (D)

Summary: The professor explains why the oceans are salty. The first reason is related to the hydrological process. Rain falls on land and dissolves mineral salts, which accumulate in rivers and eventually flow into the ocean. Hydrothermal vents are another reason why the oceans are salty. Very hot water on the ocean floor dissolves mineral salts found there. However, the professor notes that the oceans are not becoming saltier over time.

| Vocabulary Review 2 |

1. (C) 2. (D) 3. (D)
 4. (A) 5. (A) 6. (D)
 7. (D) 8. (D) 9. (B)
 10. (C) 11. (C) 12. (C)
 13. (B) 14. (A) 15. (B)
16. administered
 17. territory
 18. descended from
 19. inevitably
 20. maintenance
21. exploit 22. collide 23. surplus
 24. title 25. expanse

| Mini Test 2 |

1. (A) 2. (A) 3. (C)
 4. (B) 5. (A) 6. (D)
7. (C) 8. (B) 9. (C)
 10. (A) 11. (A) 12. (B)
13. (A) 14. (B) 15. (B)
 16. (A) 17. (A) 18. (C)

Chapter 5 Organization Questions

01 Linguistics

The Creation of Words	
Classification	Explanation
Loanwords	Words borrowed from other languages
Compounding and Derivation	Combination of words or parts of words
Onomatopoeia or imitation	Words created to imitate sounds

1. (C) 2. (C) 3. (B)

Summary: The professor describes ways that new words are added to a language. One common way of creating new words is through loanwords. These are words that are directly taken from another language without translation. Another way that new words are added is through compounding or derivation. A third way that words are created is when speakers try to imitate sounds.

02 Biology

Blood Production and Degradation	
Step 1	Step 2
New blood cells produced in bone marrow	Blood is degraded in spleen and liver

1. (B) 2. (C) 3. (A)

Summary: The lecture expands on a previous talk about the quality and function of blood. Hematopoiesis is the process of creating red blood cells in the human body. New red blood cells are created in red bone marrow, which is the soft tissue found inside bones. Blood cells usually degrade in the spleen or the liver.

03 Zoology

Hunting Dogs vs. Falcons		
Hunting Dogs	Both	Falcons
<ul style="list-style-type: none"> Hunt to please owners 	<ul style="list-style-type: none"> Have hunting relationship with humans 	<ul style="list-style-type: none"> No bond with humans, only hunt for food

1. (C) 2. (A) 3. (A)

Summary: The professor describes the sport of falconry. He compares the bond between falcons and humans to that of dogs and humans. Both relationships involve hunting, but falcons only hunt because they are hungry, while dogs will hunt in order to please humans.

04 Psychology

Yerkes and Dodson	
Experiment	Results
A mouse had to choose the correct door in a maze. If the mouse made the wrong choice, it got an electric shock.	easy task → high motivation best medium task → medium motivation best hard task → low motivation best

1. (A) 2. (C) 3. (A)

Summary: The professor discusses an experiment that supports the theory that too much motivation can hurt one's performance. The experiment involved mice that were given different levels of shock when they made a mistake trying to choose a door. The study found that when the mice did more difficult tasks, their performance was harmed by too much motivation.

05 Economics

Flaws of Marxism	
Argument	Support
Marxism had limited theory about origins of conflict	Academics believe other factors such as race are also responsible for social conflict
Marxism incorrectly assumed that value equals workers' effort plus value of machinery	Marx failed to consider value of management, sales, accounting, strategic planning, etc.

1. (B) 2. (B) 3. (A)

Summary: The discussion is about why Marxism failed. The first point made by the professor was that this economic theory did not include other factors that divide a society, like race. The professor continues by saying that another key premise of the theory was completely wrong, Marx said that the value of a company equals workers, effort plus the value of the machinery to make the products. Marx failed to account for the added value of management, sales, etc.

06 Art History

Impressionism vs. Post-Impressionism		
Impressionism	Both	Post-Impressionism
<ul style="list-style-type: none"> Painted landscapes Fast brushstrokes Focus on lighting 	<ul style="list-style-type: none"> Vivid colors Expressive brushstrokes 	<ul style="list-style-type: none"> Painted humans Swirling patterns, color dots Focus on emotion

1. (B) 2. (A) 3. (B)

Summary: The professor clarifies the differences between Impressionism and Post-Impressionism. The professor first says that they both had bright color and thick applications of paint. However, the Impressionists painted landscapes and focused on fast brushstrokes and lighting, while the Post-Impressionists painted people and focused on more careful brushstrokes and more emotion.

07 Business

Owner Spokespeople	
Advantages	Disadvantages
Less expensive	Some owners aren't good at delivery
Gives sense of authority to the message	Owner's personality might alienate customers

1. (A) 2. (C) 3. (B)

Summary: The talk is about the advantages and disadvantages of an owner spokesperson in advertising. The professor gives two pros and two cons. As for advantages, the professor says that it helps to save money, and it can make people believe the message. However, some people are not good spokespeople, either because they are too awkward in front of the camera or their personality sends the wrong message about the company.

08 Zoology

Memory in Animals		
Experiment	Result	Conclusion
Wasp remembered location of nest in relation to circle of pine cones it saw only once	Wasp flew into circle seeming to "remember" nest was inside it	Some animals seem to have some kind of memory

1. (C) 2. (B) 3. (D)

Summary: The discussion revolves around the professor's statement that animals have more developed memories than people think. She supports this idea with the example of a wasp. Researchers used a circle of pine cones to test the memory of the insect. The insect remembered the location of her nest in relation to the pine cones. The experiment indicates that even small insects have some kind of memory.

09 Psychology

Nature vs. Nurture		
Nature	Both	Nurture
<ul style="list-style-type: none"> Innate personality traits from birth Twin studies to support 	<ul style="list-style-type: none"> Try to describe how we develop personalities 	<ul style="list-style-type: none"> Humans acquire personality and intelligence through experience B.F. Skinner's work on conditioning

1. (B) 2. (A) 3. (B)

Summary: The professor explains the nature versus nurture debate. She clarifies what the debate is about and discusses twin studies that suggest personality traits are intrinsic, passed through the genes. Next, she talks about tabula rasa, the idea that humans are born as blank slates. She mentions B.F. Skinner's work on conditioning to support that people are more affected by their environment or experiences.

10 Art History

Cubism vs. Surrealism		
Cubism	Both	Surrealism
<ul style="list-style-type: none"> Used geometric shapes 	<ul style="list-style-type: none"> Distorted reality 	<ul style="list-style-type: none"> Mixed objects that did not belong together

1. (B) 2. (A) 3. (C)

Summary: The class compares the artistic aspects of two art movements: cubism and surrealism. In the discussion, it is stated that they both altered reality, though they did this in different ways. Cubism focused on changing the shape of the subject and distorting it using cubes. On the other hand, surrealists distorted reality by mixing subjects that would usually not appear together.

Chapter 6 Content Questions

01 Biology

The Sun and Your Health	
Theory	Support
Exposure to some sunlight is good for you	Sun provides vitamin D, which helps us absorb calcium
	Exposure to sunlight can help make people happy

1.

	YES	NO
The sun is a better source of Vitamin D than food is.	✓	
The human body requires two hours of sunlight every day.		✓
The sun can positively affect mental health.	✓	

Summary: The professor discusses the benefits of sunlight to humans. He says that it provides vitamin D, which helps our bodies absorb calcium. The professor also says that exposure to the sun can have benefits for mental health, helping to make people feel happy.

02 History

Symbolism of the Bastille	
Key Points	Support
Prison that held rebels	Symbol of oppression
People revolted, sparked French Revolution	Symbol of freedom

1.

	YES	NO
The events at the Bastille were caused by the revolution.		✓
The Bastille has remained a symbol of political oppression.		✓
The Bastille was a prison that was attacked.	✓	

Summary: The professor talks about how certain things can represent greater ideas for people, and he uses the example of the Bastille. Originally it was a place that held prisoners. It was a sign of the king's power and oppression. However, after an event where the people freed the inmates of the Bastille, it came to represent the French Revolution and freedom.

03 Office Hours

Problem	Support
Student needs help preparing for upcoming test	Make use of online test bank
	Make use of online tutorials

1.

	YES	NO
The student is worried about the next test.	✓	
The professor posts tests online.	✓	
The professor provides online tutorials.		✓

Summary: The student visits the professor to talk about the upcoming test. The professor recommends two ways that the student can prepare. First, the professor keeps copies of old tests online for students to review. Second, the professor says that there are online tutorials that can help the student as well. The professor also mentions that reading the textbook is important.

04 Service Encounter

Steps in the Hiring Process		
1. Have official interview with manager from Food Services	2. Attend orientation session	3. Go through training period after starting work

1.

	YES	NO
The student is looking for a job that begins immediately.	✓	
The student will work in the bakeshop.		✓
The student hopes to begin working as soon as possible.	✓	

Summary: A student wants to sign up for an on-campus job, so she visits the student employment office. The employee tells her about the hiring process. First, she must go through an official interview. Then she must go to an orientation session. Last, there is a training period that occurs after she begins work.

05 Environmental Science

How Mountains Grow	
Cause	Effect
Subduction – one continental plate slides under another	Mountains get taller over time
Global warming – glaciers melt, relieve pressure	

1.

	YES	NO
The Andes are so tall because of earthquakes.		✓
Mountains can be formed by plate collisions.	✓	
The process of global warming is affecting the height of some mountains.	✓	

Summary: The professor talks about why some mountain ranges are taller than others. He says that this is sometimes caused by plate collisions. This happens when two of the Earth's plates come together. The professor also discusses global warming as a cause. Glaciers push down on the Earth. But when they melt, the Earth springs back up and mountains grow taller.

06 History

Confucianism	
Topic	Effect
Confucianism in northeast Asian countries	Shaped ideals of family and social organization
	Can lead to harmony in workplace

1. (C) 2. (B) 3. (A)

Summary: The professor discusses the effects of Confucianism on northeastern Asia. In particular, the professor mentions how Confucianism affected the culture of Japan. First of all, its influence can be seen in how people relate to each other. It emphasizes living in harmony with others by knowing one's place in society. The professor then discusses how Confucianism applies to businesses.

07 Office Hours

Problem	Solution	Concern	Refutation
Student wants to take summer courses, but will be at home	Take online courses	Too expensive	Less expensive than regular courses
		No classroom experience	Not necessary for learning experience

1. (A) 2. (C) 3. (D)

Summary: The student asks for advice from his professor about summer courses. The professor mentions online courses, but the student is worried that such classes are too expensive. The professor says the student would actually save money and graduate earlier. The student then worries that he will miss the classroom experience, but the professor says that certain aspects of these classes could be helpful.

08 Service Encounter

Questions	Answers
How much student activity fee is	\$560 per semester
What student activity fee is used for	University events like Spring Weekend
	Student services

1.

	YES	NO
The student wants to find out how much the fee is and what it is used for.	✓	
The student activity fee doesn't include campus events.		✓
The student activity fee is used mostly for campus services.		✓

Summary: The student asks about the student activity fee. He wants to know how much it is and what it is used for. He is told that it helps pay for both university events, which are arranged by student organizations, and is also used for various services. A few services mentioned by the woman are the weekly newspaper, computer and library facilities, and free on-campus transportation.

09 Astronomy

Weather Patterns on Jupiter	
Classification	Description
Bands of color	Convection creates color bands, rotational speed wraps them around planet
Great Red Spot	300-year-old hurricane caused by rotational speed and lack of land

1.

	Atmospheric Bands	Great Red Spot
Similar in nature to a hurricane		✓
Caused by convection	✓	
Dark and light red color	✓	

Summary: The professor explains the weather patterns on the surface of Jupiter. She describes its unique colors, which are caused by the rotational speed of the planet along with the process of convection. These two things together cause bands of colored gases to wrap around the planet. The professor also discusses the Great Red Spot, which is a hurricane maintained by the planet's fast rotational speed.

10 Biology

Alleles		
Definition	Role	Types
Sequences of genes on a specific chromosome	Determine the appearance of specific traits	Dominant – only need one allele for trait to appear
		Recessive – need two identical alleles for trait to appear

1.

	YES	NO
Alleles determine the appearance of a character trait.	✓	
Alleles are made up of chromosomes.		✓
There are four different types of alleles.	✓	

Summary: The professor discusses alleles, which are a pair of genes that are located on a specific chromosome. The professor talks about their role, which is to determine specific traits. The professor then discusses how this occurs by defining dominant and recessive alleles.

Chapter 7 Inference Questions

01 Environmental Science

Types of Seas			
Mediterranean		Marginal	
Water circulates as a result of changes in water temperature and density		Water circulates as a result of ocean currents	
Limited exchange of water with oceans	Currents caused by temperature variation	Part of ocean with some land around	Currents caused by ocean winds

1. (B) 2. (B) 3. (D)

Summary: The professor discusses the different types of seas. The first type is called a mediterranean sea. The water in this type of sea circulates through changes in temperature and water density. The second type is called a marginal sea, which is nearly enclosed by islands or some other kind of land. The waters within this kind of sea are circulated by currents caused by wind.

02 Biology

Respiration Underwater vs. Respiration on Land		
Underwater	Both	Land
<ul style="list-style-type: none"> Requires gills to take oxygen from water 	<ul style="list-style-type: none"> Exchange of carbon dioxide and oxygen 	<ul style="list-style-type: none"> Requires organs such as lungs

1. (B) 2. (B) 3. (A)

Summary: The professor discusses two types of respiration: underwater and on land. He explains the need for different respiration organs for animals that live underwater. Gills are adapted to extract oxygen from water. For animals that live on land, there are different ways of breathing. Some animals can breathe just by having their cells exposed to the air. Some animals require special organs to breathe, like lungs.

03 Office Hours

Problem	Solution
Student is always late to discussion section	Switch to another discussion section at a better time

1. (A) 2. (C) 3. (B)

Summary: The conversation takes place between a professor and a student. She is approaching the professor to change the time of her discussion section. The professor asks her why, and she explains that it is a problem with her schedule caused by another professor. She has trouble getting to her group on time. The professor agrees to change her to a different group.

04 Service Encounter

Problem	Solution
Student was accidentally assigned to room in all-girl's dormitory	Housing Coordinator helps him change rooms

1. (B) 2. (A) 3. (C)

Summary: The conversation takes place between a housing employee and a student. The student has accidentally been assigned to a dorm that houses only girls, and he needs to change dorms. He says the room is very nice, but he obviously cannot stay there. The employee provides him with a form that will allow him to move to a different dorm. She also tells him that he can leave part of the form blank.

05 Business

The Bricks and Clicks Business Model	
Definition	Aspects
Business model that uses both online and offline components	Has established supply and distribution networks
	Has stability, which helps attract customers

1. (B) 2. (D) 3. (A)

Summary: The discussion is about the bricks and clicks business model. It is a model that includes both offline and online elements. The professor explains a couple of advantages for this business model. First, he says that it allows businesses more freedom in how they operate. He also says the system is stable because established businesses already have supply and distribution chains set up.

06 Anatomy

The Integumentary System	
Definition	Functions
Body covering such as skin, hair, and nails	Protects internal organs
	Helps regulate body temperature
	Provides sense of touch

1. (A) 2. (A) 3. (C)

Summary: The professor discusses the integumentary system, which comprises the body’s external coverings, such as skin, hair, and nails. First, the integumentary system provides protection for our internal organs. Second, it helps us to regulate our body temperature. Last, it acts as a receptor for pain and temperature changes.

07 Office Hours

Problem	Solution
Student wants to expand a previous paper rather than write a new one	Professor agrees, as long as student follows the same rules as everyone else

1. (B) 2. (A) 3. (D)

Summary: A student approaches her professor to discuss the paper topics he assigned. The student wants to expand on a previous paper that she wrote rather than choose from the new topics the professor presented. The professor agrees to let her do this because the student plans to submit the paper to the department’s magazine.

08 Service Encounter

Covered by Insurance	Not Covered by Insurance
• Doctor’s visits	• X-rays • Lab tests • Dental work

1. (A) 2. (D) 3. (A)

Summary: The conversation takes place between a student and an employee at health services. The student approaches the employee with questions about the university insurance plan. The employee explains the cost as well as some of the services that are covered and not covered in the plan. The student also finds out that dental insurance is not covered by the university plan at all.

09 History

The Success of the Purépecha	
Point	Example
Had better ways of defending themselves than other tribes	Knew how to work metal to create weapons and armor
Had well-organized military	Outnumbered and defeated Aztec army in numerous battles

1. (B) 2. (A) 3. (B)

Summary: The Purépecha are a tribe living today in Central America. The professor presents two theories about why the Purépecha peoples were able to effectively resist Aztec and Spanish forces. First, she argues that the advanced Purépecha knowledge of working metal helped them produce weapons and armor. She also proposes that the Purépecha army was relatively large and well-organized.

10 Ecology

Parasitism vs. Mutualism		
Parasitism	Both	Mutualism
• One species benefits, other is harmed	• Two species coexist	• Both species benefit

1. (C) 2. (A) 3. (B)

Summary: The discussion begins with a definition and example of parasitism and ends with a definition and example of mutualism. In the first type of relationship, one animal lives off of another animal, and by doing so, harms the other animal. By contrast, in the second relationship, two species are able to help each other by either providing protection or nutrition.

| Vocabulary Review 3 |

- 1. (D) 2. (D) 3. (B)
- 4. (A) 5. (D) 6. (C)
- 7. (C) 8. (A)

- 9. (B) 10. (B) 11. (C)
- 12. (A) 13. (C) 14. (A)
- 15. (B)

- 16. comprises 17. complaint 18. feasible
- 19. enrich 20. deduce

- 21. (B) 22. (A) 23. (D)
- 24. (E) 25. (C)

| Mini Test 3 |

01 Computer Science

- 1. (C) 2. (B) 3. (B)
- 4.

	Local area network	Wide area network
Private organization		✓
Home office	✓	
Internet service provider		✓
Small office	✓	
Dormitory	✓	

- 5. (B)

02 Literature

- 6. (A) 7. (A) 8. (D)
- 9.

	YES	NO
The names of some characters in <i>The Sandman</i> refer to the eyes.	✓	
The main character, Nathaniel, became blind as a young boy.		✓
One of the story's themes is obsession.	✓	
The Sandman traditionally has a very different meaning from that in the story.	✓	
The professor discusses vision and optical illusions.		✓

- 10. (C)

03 Service Encounter

- 11. (D) 12. (B)
- 13.

	YES	NO
Receive course approval from the head of the department	✓	
Submit the credit request form by the deadline	✓	
Contact her professors about the courses she plans to take		✓
Send her professors copies of her final exam		✓

- 14. (A) 15. (B)

Practice Test

01 History

- 1. (C) 2. (D) 3. (B)
- 4. (A) 5. (B) 6. (B)

02 Chemistry

- 7. (A) 8. (D) 9. (B)
- 10. (B) 11. (B)
- 12.

	YES	NO
A stable cluster in solution forms the nucleus of the crystal.	✓	
A supersaturated solution eliminates growth potential.		✓
A crystal structure is formed by connected atoms.	✓	
The solution becomes supersaturated and the crystal stops growing.		✓

03 Service Encounter

- 13. (B) 14. (D) 15. (B)
- 16. (C) 17. (A)

04 Psychology

18. (A) 19. (B) 20. (B)
21. (C) 22. (A) 23. (A)

05 Physics

24. (A) 25. (B) 26. (B)
27. (A) 28. (C)
29.

	Fixed base pulley	Movable base pulley	Compound pulley
Has an axis that is not stationary		✓	
Has the most potential for mechanical advantage			✓
The most basic kind of pulley	✓		

06 Office Hours

30. (C) 31. (A) 32. (A)
33. (B) 34. (A)