THE LONG ISLAND QUIZ BOWL ALLIANCE

Classic 4-Quarter Sample, Middle School

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Quarter 1

1 **Math Computation** What is the limit of the equation $3x^2+4x+4$ as x approaches 3?
ANSWER: **43** <Computational Math>

2 The Haber process produces this compound by breaking apart diatomic nitrogen. What compound common in household cleaners and fertilizers has formula NH_3?
ANSWER: **ammonia** (accept **NH_3** before mention) <Science>

3 What conflict was sparked by the July Crisis, a period in which Serbia was handed an unmeetable ultimatum by the Austro-Hungarian Empire following the assassination of Archduke Franz Ferdinand?
ANSWER: **W**orld **W**ar **I** <History>

4 The Weber River flows into this body of water, which has shrunk considerably due to frequent droughts. What lake known as "America's Dead Sea" names the capital of Utah?
ANSWER: **Great Salt** Lake <Geography>

5 What member of the "Squad," who defeated Joe Crowley in a 2018 primary and is the daughter of a Puerto Rican mother, is a progressive Democrat representing the Bronx and Queens?
ANSWER: Alexandria **Ocasio-Cortez** [accept **AOC**] <Current Events>

6 This play's protagonist is hanged after being betrayed by Mary Warren. What commentary on McCarthyism was written by Arthur Miller and follows John Proctor's experiences in the Salem Witch Trials?
ANSWER: *The* ***Crucible*** <Literature/Language>

7 **Math Computation.** What is the sum of the first 8 odd integers, given that the sum of the first *n* odd integers is the square of *n*?
ANSWER: **64** (1+3+5+7+9+11+13+15=**64**, 8^2=**64**) <Computational Math>

8 This character witnesses the murder of Injun Joe, and earlier profited by trading off the job of whitewashing a fence. Name this friend of Huckleberry Finn created by Mark Twain.
ANSWER: **Tom Sawyer** [accept either name] <Literature>

9 What structure is stained purple in Gram-negative bacteria, composed of cellulose in plants, and is an additional protective organelle that surrounds the cell membrane?
ANSWER: **cell wall** <Science>

10 Irish famine refugees crowded the Five Points slum in this city, the site of the Stonewall riots. What city is served by airports named after Fiorello La Guardia and John F. Kennedy?
ANSWER: **New York** City [or **NYC**] <History>

11 Name this figure known as Isa in the Quran who was kissed on the mouth at the Gardens of Gethsemane by Judas Iscariot, leading to his arrest and crucifixion.
ANSWER: **Jesus Christ** [accept either name] <Religion>

12 This artist of *Eight Elvises* also created fifty paintings of Marilyn Monroe shortly after her death. What pop artist used screen printing to depict 32 cans of Campbell's soup?
ANSWER: Andy **Warhol** (accept Andrew **Warhola** Jr.) <Fine Arts>

13 "Waves" of this force that resulted from a black hole merger were detected by LIGO in 2015. What force's magnitude is proportional to the inverse square of distance, and causes masses to be attracted to each other?
ANSWER: **gravity** <Science>

14 The host of this show released a children's book attacking Mike Pence titled *A Day in the Life of Marlon Bundo*. Name this HBO talk show hosted by John Oliver.
ANSWER: ***Last Week Tonight*** *with John Oliver* <Pop Culture>

Quarter 2:

Tossups:

1 **Math Calculation**. What is the hypotenuse of a right triangle whose legs are 10 and 24 units respectively?
ANSWER: **26**

2 What battle, preceded by the Battle of Quatre Bras, saw reinforcements led by Gebhard von Blucher assist the Duke of Wellington in decisively defeating Napoleon and ending the Napoleonic Wars?
ANSWER: Battle of **Waterloo** <History>

3 A film centering on these creatures based on the novel *I Am Legend* was directed by George Romero. What flesh-eating creatures appear in the film *Night of the Living Dead*?
ANSWER: **zombie**s [prompt on dead or undead; prompt on living dead before "*Night of the Living Dead*"] <General Knowledge>

4 Consuming too much of this organ may cause vitamin A toxicity. What organ, whose blood supply comes through the portal vein, produces bile and may be affected by cirrhosis due to excess alcohol consumption?
ANSWER: **liver** <Science>

5 What novel, in which the main character plays Scrabble with someone she serves as a "two-legged womb" for, is set in the dystopian country Gilead and is by Margaret Atwood?
ANSWER: *The **Handmaid's Tale*** <Literature>

6 Yaviza is the northern terminus of the Darien Gap in this country. Gatun Lake is located in what country which is cut through by a namesake canal?
ANSWER: **Panama** <Geography>

7 What son of Sin-Muballit established Babylonian rule over most of Mesopotamia and wrote a namesake law code which stipulated "an eye for an eye?"
ANSWER: **Hammurabi** <History>

8 What biblical book attacks the problem of evil through a parable of a man who briefly loses his family, possessions, and health due to a wager between God and the Devil?
ANSWER: Book of **Job** <Religion and Mythology>

9 The title character of a novel by this author kills the bully Lip-Lip. Grey Beaver adopts the title character in what author's novel *White Fang*?
ANSWER: Jack **London** <Literature>

Bonuses:

1 Answer the following about the Mexican novel *Like Water for Chocolate*.
1. Each chapter in *Like Water for Chocolate* is accompanied by one of these instructional texts that are compiled in cookbooks.
ANSWER: **recipe**s
2. The sequel to *Like Water for Chocolate* is titled for one of these things. One of these works largely addressed to the imaginary Kitty was written in Amsterdam by a young female victim of the Holocaust.
ANSWER: **diary** [accept ***Tita's Diary*** or *The* ***Diary of Anne Frank***]
3. In *Like Water for Chocolate*, Tita cares for her niece of this name after her sister Rosaura's death. The vignettes in Sandra Cisneros' *House on Mango Street* are narrated by a girl with this first name and the last name Cordero.
ANSWER: **Esperanza**
4. *Like Water for Chocolate* is the debut novel of this Mexican novelist who also wrote *The Law of Love*.
ANSWER: Laura **Esquivel**
<Literature>

2 Answer some questions about immune cells.
1. Immune cells are carried through the body by this red substance, which flows through arteries and veins.
ANSWER: **blood**
2. These immune cells named for a color are one of the main constituents of blood, along with red blood cells.
ANSWER: **white blood cell**s [accept **monocyte**s or **lymphocyte**s or **neutrophil**s or **basophil**s or **eosinophil**s]
3. These lymphocytes named for a single letter have "memory" and "plasma" types and undergo maturation in the bone marrow.
ANSWER: **B** cells
4. These other lymphocytes, which provide a fast response to infection, perform a similar role to cytotoxic T cells. Their name can be abbreviated NK cells.
ANSWER: **natural killer** cells [prompt on NK cells]
<Science>

3 Answer the following about Aztec mythology:
1. The Aztec God Huitzilopochtli ["hweet-see-luh-POCHT-lee"] guided them to found Tenochtitlan ["TEN-och-teet-LAHN"], the future capital of this modern-day country conquered by Hernan Cortes.
ANSWER: **Mexico**
2. The Aztec believe the world went through five cycles named after this astronomical object. Helios and Amaterasu were other deities of this celestial object.
ANSWER: **Sun**
3. The Toltecs made sacrifices to this feathered serpent God in Tula. The Aztecs initially believed Cortes was a reincarnation of this God.
ANSWER: **Quetzalcoatl**
4. This other Aztec God turned himself into the sun after defeating the world-crocodile, remaining there until he was knocked out of the sky. This God often took the form of a jaguar.
ANSWER: **Tezcatlipoca** <Mythology>

4 Answer the following about islands in the United States.
1. This island is the largest and most populous in the contiguous U.S., and contains the New York City boroughs of Brooklyn and Queens.
ANSWER: **Long** Island
2. This Florida island, Hemingway's home for eight years, contains the southernmost point of the contiguous United States.
ANSWER: **Key West**
3. Isle Royale, the United States' largest island in a lake, lies north of Marquette inside this Great Lake.

ANSWER: Lake **Superior**

4. California's six largest islands, including Santa Cruz and Santa Catalina, are all in this archipelago that was designated a national park in 1980.

ANSWER: **Channel** Islands <Geography>

5 Answer the following about oranges in literature:

1. The protagonist of this play states "You can't eat the orange and throw the peel - a man is not a piece of fruit." Willy Loman commits suicide at the end of what play by Arthur Miller?

ANSWER: ***Death of a Salesman***

2. "Why are oranges round?" and "How many does it take to make twelve?" are questions asked by the title character of "The Ransom of Red Chief," a story by this author of "The Gift of the Magi."

ANSWER: **O. Henry** [or William Sydney **Porter**]

3. The title people are described as "orange lollies on silver sacks" in this poet's "The Munich Mannequins". What confessionalist poet was married to Ted Hughes and wrote the collection *Ariel*?

ANSWER: Sylvia **Plath**

4. What poet describes "complacencies of the peignoirs, and late coffee and oranges" in his poem "Sunday Morning" and also wrote "Thirteen Ways of Looking at a Blackbird"?

ANSWER: Wallace **Stevens**

Quarter 3:

The categories are: Starts with the Letter F, Starts with the Letter G, Starts with the Letter H, and Starts with the Letter K

CATEGORY: Starts with the letter F

1. Country home to the Eiffel Tower and the city of Paris

ANSWER: **France**

2. Term for a young deer

ANSWER: **fawn**

3. Constitutional amendment that forbids double jeopardy and protects against self incrimination

ANSWER: **Fifth** Amendment [or Amendment **Five**]

4. German city whose airport is a hub for Lufthansa Airlines.

ANSWER: **Frankfurt** [or **Frankfurt** am Main]

5. Austrian archduke who was assassinated by Gavrilo Princip, leading to the start of World War I.

ANSWER: **Franz Ferdinand**

6. Quantity equal to mass times acceleration, according to Newton's Second Law

ANSWER: **force**

7. Technique that injects pressurized fluid into a wellbore to create cracks in bedrock to extract natural resources

ANSWER: **fracking**

8. Country song originally written by Tracy Chapman and later re-recorded by Luke Combs in 2023.

ANSWER: "**Fast Car**"

9. Middle Eastern street food consisting of ground chickpeas formed into a ball and fried.

ANSWER: **Falafel**

10. Indo-European language commonly spoken in Iran

ANSWER: **Farsi**

CATEGORY: Starts with the letter G

1. Old Faithful in Yellowstone National Park is one of these geological features

ANSWER: **geyser**s

2. Unit of volume equal to four quarts

ANSWER: **gallon**

3. Building used for exercise whose name means "exercise naked"

ANSWER: **gym**nasium

4. F. Scott Fitzgerald novel narrated by Nick Carraway

ANSWER: *The **Great Gatsby***

5. 1848 treaty that ended the Mexican–American War

ANSWER: (Treaty of) **Guadalupe Hidalgo**

6. First book in George R. R. Martin's series *A Song of Ice and Fire*.

ANSWER: *A **Game of Thrones***

7. Composer of *Rhapsody in Blue*.

ANSWER: George **Gershwin**

8. DNA nucleotide base that pairs with cytosine

ANSWER: **guanine** [prompt on G]

9. Stage name of the electronic pop musician who had a child with Elon Musk.

ANSWER: **Grimes**

10. Mexican city that is the capital of Jalisco.

ANSWER: **Guadalajara**

CATEGORY: Starts with the letter H

1. Organ responsible for pumping blood throughout the body.

ANSWER: **heart**

2. Property that refers to the gradation or tint of a color.

ANSWER: **hue**

3. Greek goddess of marriage and wife of Zeus

ANSWER: **Hera**

5. SI unit for frequency, which is named for a German physicist.

ANSWER: Heinrich **Hertz**

6. Composer of *Music for the Royal Fireworks* and the oratorio *Messiah*.

ANSWER: George Frideric **Handel**

7. Egyptian god of the sky who is depicted as a falcon

ANSWER: **Horus**

8. Group 17 elements that are known for their high reactivity and have a name meaning "salt former"

ANSWER: **halogen**s

9. First president of the Republic of Texas.

ANSWER: Sam **Houston**

10. Author who included the character Major Major in his novel *Catch-22*.

ANSWER: Joseph **Heller**

CATEGORY: Starts with the letter K

1. 16th century German astronomer with three laws of planetary motion.
ANSWER: Johannes **Kepler**
2. Type of oven used for firing pottery
ANSWER: **kiln**
3. Bean-shaped organs that filter toxins and excrete waste products.
ANSWER: **kidney**s
4. Mexican woman with a unibrow who painted *The Two Fridas*.
ANSWER: Frida **Kahlo**
5. Noble gas with atomic number 36 that is used in fluorescent lamps.
ANSWER: **neon** [prompt on Ne]
6. Shakespearean tragedy in which Cordelia is banished by her father.
ANSWER: ***King Lear***
7. Country on the Persian Gulf that was invaded by Iraq in 1990.
ANSWER: **Kuwait**
8. Author from Maine whose horror novels include *The Shining* and *Carrie*.
ANSWER: Stephen **King**
9. Term for spirits and deities that are venerated in the Shinto religion.
ANSWER: **kami**
10. University where four students were killed by the Ohio National Guard in 1970.
ANSWER: **Kent State**

Quarter 4

1 The region for which this body of water is named was conquered after the Battle of Plassey and was led by Siraj ud-Daulah. The Ganges River flows into what large bay east of India?
ANSWER: Bay of **Bengal** (prompt on Indian Ocean) <Geography>

2 After overthrowing Lon Nol, this ruler assumed the title of "Brother Number One" and declared his country to be in "Year Zero." What dictator established "killing fields" while leading the Khmer Rouge in Cambodia?
ANSWER: **Pol Pot** (or **Saloth** Sar) <History>

3 A flower grows from a shattered sword in this painting. What painting depicting the bombing of its namesake city was painted by Pablo Picasso during the Spanish Civil War?
ANSWER: ***Guernica*** <Fine Arts>

4 This character was modeled on Dr. Joseph Bell and was believed to have died at Reichenbach Falls with Professor Moriarty. What detective appears in *A Study in Scarlet* and was created by Arthur Conan Doyle?
ANSWER: **Sherlock Holmes** [accept either name] <Literature>

5 What substance, whose formation is characterized by the CLORPT factors, is divided into horizons such as A and O and is a mixture of organic and inorganic matter that supports plant life?
ANSWER: **soil** <Science>

6 The central group of this musical believes in the divine Heaviside layer, where Grizabella is chosen to go after she sings the song "Memory." Name this Andrew Lloyd Webber musical about felines.
ANSWER: ***Cats*** <Fine Arts>

7 The first posthumous biography of this person was written by Parson Weems. Name this president who legendarily could not tell a lie when his father asked if he cut down a cherry tree.
ANSWER: George **Washington** <General Knowledge>

8 **Math Computation.** What is the largest 2-digit triangular number, given that triangular numbers can be calculated by finding the sum of the first n positive integers?
ANSWER: **91** <Computational Math>

9 The "gap" version of Okun's law states that a one percent increase in this quantity is related to a two percent decrease in GDP. Name this quantity, which measures the percentage of people without a job.
ANSWER: **unemployment** rate <Social Science>

10 This national park contains the colorful Morning Glory Pool. What first U. S. national park contains a geyser that erupts about every 70 minutes named Old Faithful?
ANSWER: **Yellowstone** National Park <Geography>

11 **Math Computation**. John is flipping a fair two sided coin. What is the probability that he flips 6 heads in a row? You may give your answer as a fraction or a decimal rounded to the nearest thousandth.
ANSWER: **1/64** or **0.016** <Computational Math>

12 After Isis cuts this deity's hands off, Sobek invents a net and fishes them out. Living pharaohs were manifestations of what deity, the falcon-headed god of the sky?
ANSWER: **Horus** <Religion and Mythology>

13 What man, whose correspondence with James Wilkinson led to his arrest for treason, lost a contingent election to Thomas Jefferson in 1800 and killed rival Alexander Hamilton in a duel?
ANSWER: Aaron **Burr** <History>

14 These cells are surrounded by either oligodendrocytes or Schwann cells. What cells contain synapses at their axonal junctions and transmit electrical and chemical signals throughout the nervous system?
ANSWER: **neuron**s <Science>

15 This mythological hero titles a W. H. Auden poem inspired by an ekphrastic depiction of his shield. The command "sing the rage of" what hero opens the *Iliad*, in which he dies after Paris shoots his vulnerable heel?
ANSWER: **Achilles** <Literature>

16 This novel's title character arrives in Marseille on the *Pharaon* and is unjustly sent to Château d'If, where he meets Abbé Faria. What novel, whose vengeful title character is Edmond Dantès, is by Alexandre Dumas?
ANSWER: *The* ***Count of Monte Cristo*** [or *Le* ***Comte de Monte-Cristo***] <Literature>

17 During a feature on a Drake song, this artist states, "I found myself getting lost with you." This artist's debut album, *Music of the Sun*, features "Pon De Replay." What artist's songs include "Umbrella" and "Work"?
ANSWER: **Rihanna** (accept Robyn Rihanna **Fenty**) <Pop Culture>

18 What type of molecule, whose thermosetting variety can acquire cross-links, includes Nylon and Teflon and consists of long chains of monomers?
ANSWER: **polymer**s <Science>