THE LONG ISLAND QUIZ BOWL ALLIANCE

Arkansas Standard Sample, High School Level

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Quarter One

1. This polity's first king was Sancho the Strong, and its rulers included Peter the Cruel. A queen of this kingdom was served by Tomás de Torquemada ("tor-keh-MAH-duh"). What Iberian kingdom was ruled by Isabella, the wife of Ferdinand of Aragon?
ANSWER: Kingdom of **Castile** [accept **Castile** and León; prompt on Spain] <Social Studies>

2. This part of speech is repeatedly added to emphasize items in a list in polysyndeton ("pol-ee-SIN-dee-ton"). The acronym FANBOYS is used for remembering what part of speech?
ANSWER: **conjunction**s [accept coordinating **conjunction**s] <Language Arts>

3. This city's Den Den Town neighborhood is frequented by pop culture fans. Food stalls line this city's Dotonbori canal. The 2025 World Expo was held in what Kansai city and largest city in its country after Yokohama and Tokyo?
ANSWER: **Osaka** <Social Studies>

4. In this process, securin is targeted by an E3 ubiquitin ligase complex to be degraded. Name this phase of mitosis in which microtubules pull chromatids toward the poles of the cell and push off each other to move the poles away from the center of the cell.
ANSWER: **anaphase** [accept more specific answers, such as **anaphase A** or **anaphase B**; prompt on mitosis or meiosis] <Science>

5. What five-letter English word translates as "kawa" in Japanese, "jiāng" ("jee-AHNG") or "hé" ("huh") in Mandarin, "fluss" ("flooss") in German, and "fleuve" ("floove") in French?
ANSWER: **river** <Language Arts>

6. A member of this tribe married Toussaint Charbonneau ("too-SAN char-bo-NO") and helped guide an expedition from Missouri to the Pacific Ocean. The Lewis and Clark expedition was aided by what tribe's member Sacagawea?
ANSWER: **Shoshone** [accept Northern **Shoshone**] <Social Studies>

7. In a novel by this author, BZ's suicide leads to Maria Wyeth's hospitalization in Los Angeles. Which author of *Play It as It Lays* wrote the essay collections *The White Album* and *Slouching Towards Bethlehem*?
ANSWER: Joan **Didion** <Language Arts>

8. This senator called for an investigation into Operation Midway Blitz in Chicago. Name this Thai-American Senator from Illinois who lost both legs in the Iraq War.
ANSWER: Tammy **Duckworth** <Current Events/Pop Culture>

9. This man was the first to realize the pendulum's potential for tracking time, leading to Christian Huygens's invention of the pendulum clock. What man was tried by the inquisition for supporting heliocentrism and discovered Saturn's rings?
ANSWER: **Galileo** **Galilei** [accept either] <Science>

10. This president nullified the Hay–Bunau-Varilla Treaty by signing two treaties with Omar Torrijos relinquishing American control of the Panama Canal. What former president volunteered for Habitat for Humanity with his wife, Rosalynn?
ANSWER: Jimmy **Carter** [or James Earl **Carter** Jr.] <Social Studies>

11. This composer, who mentored the group Les Six, instructed performers to repeat a motif 840 times in his piece *Vexations*. What French composer used the name of a Greek festival to title his *Gymnopédies* ("zhim-noh-peh-dee")?
ANSWER: Erik **Satie** [or Eric Alfred Leslie **Satie**] <Fine Arts>

12. An irregular pentagon has two internal angles x, two internal angles y, and one internal angle z, where x is equal to three times y and y is equal to 62 degrees. In degrees, what is angle z equal to?
ANSWER: **44** degrees <Computational Math>

13. In Japanese myth, this fruit is used to bring Momotaro to an elderly couple who adopt him. Sun Wukong is sent to guard trees that produce what fruit, which is said to grant those who eat it immortality in Chinese myth?
ANSWER: **peach**es of immortality <Mythology/Religion/Philosophy>

14. Along with squaring the circle and trisecting the angle, doubling one of these objects is a classic unconstructible problem. One of these shapes's side lengths times the square root of three gives the length of these shape's space diagonal. Name this Platonic solid that has six equal-sized square faces.
ANSWER: **cube** [or **hexahedron**] <Math>

15. In what type of English-language location would you most likely use "Die Zahnbürste" ("dee zahn-BOORST-uh") and "Die Zahnpasta" while standing in front of "Der Spiegel" ("dayr SHPEE-gull") after exiting "Die Badewanne" ("dee BAAH-day-VAHN-nuh")?
ANSWER: **bathroom** [accept equivalents, such as **restroom** or **toilet**] <Language Arts>

16. The bacterium that causes leprosy and this other disease nicknamed "white death" can be identified using a Ziehl-Neelsen stain. What disease, whose causative agent belongs to the genus *Mycobacterium*, affects the lungs?
ANSWER: **tuberculosis** [or **consumption**; accept *Mycobacterium* ***tuberculosis***] <Science>

17. This effect's namesake microscopy scans its evanescent wave field. What effect occurs at the critical angle, is used by fiber optic cables to transmit long distances, and occurs when all waves are reflected from a surface?
ANSWER: **total internal reflection** [or **TIR**] <Science>

18. What is the product when you multiply all four roots of the two polynomials (read slowly) $x^2 + 3x + 2$ ("x squared plus three x plus two) and $x^2 + 5x + 6$ ("x squared plus five x plus 6") with each other?
ANSWER: **12** (The roots are -2, -1, -2, and -3) <Computational Math>

19. This man fled to Virginia after killing the leader of a 1773 mutiny in Tobago. This man declared that “I have not yet begun to fight!” when asked to surrender in 1779. The USS *Bonhomme Richard* was commanded by what “Father of the Navy”?
ANSWER: John Paul **Jones** <Social Studies>

20. Whether this process can be done using objects named for Hao Wang is undecidable. Penrose’s darts and kites can perform this process aperiodically. Hexagons, equilateral triangles, and squares can do this process due to their internal angles dividing 360 degrees. Name this task of covering a two-dimensional surface with no gaps.
ANSWER: **tiling** the plane [or **tessellation** or **tessellating** the plane] <Math>

Quarter Two

21. This quantity can be found for shapes with lattice-point vertices by Pick's theorem. Heron's formula gives this quantity for triangles. For a trapezoid, this quantity is equal to the height times the average of the base lengths. What quantity for a rectangle equals the product of its width and length?
ANSWER: **area** <Math>

22. One of these molecules is centrally bound to two chlorine atoms in phosgene. This molecule is the heavier of two gases used in the Mond process. Opposite iodide, this is the strongest ligand in the spectrochemical series. A triple bond is found in which toxic gas made from incomplete combustion?
ANSWER: **CO** [or **carbon monoxide**] <Science>

23. These animal's teeth are the state fossil of North Carolina. Claims that these extinct animals still lived were made in a 2013 documentary during the Discovery Channel's "Shark Week." What extinct species of massive shark has a name meaning "big tooth"?
ANSWER: **megalodon**s [or ***O****todus* ***megalodon***; prompt on sharks or "The Meg"] <Science>

24. Karl Marx was a member of the "Young" followers of this philosopher. History is structured around periods of increasing freedom according to this man's *Elements of the Philosophy of Right*. Truth is identified by sublation in a three-stage "dialectic" named after what German philosopher who wrote *The Phenomenology of the Spirit*?
ANSWER: George Wilhelm Friedrich **Hegel** [or G.W.F. **Hegel**; accept Young **Hegel**ians or **Hegel**ian dialectic] <Mythology/Religion/Philosophy>

25. One of these places named for James Monroe is where Jefferson Davis was imprisoned after the Civil War. The Green Mountain Boys helped seize a star-shaped one of these places called Ticonderoga. What types of places served as military outposts in cities such as Norfolk during the War of 1812?
ANSWER: **fort**s [or **fortress**es; accept **Fort Monroe** or **Fort Ticonderoga**; on "outposts" until mentioned] <Social Studies>

26. This mountain, the only Decade Volcano in the continental United States, may damage the cities of Puyallup and Renton if it erupts. Columbia Crest is the tallest of this mountain's ridges. What mountain in the Cascade Range is sixty miles from Seattle?
ANSWER: Mount **Rainier** [or **Tahoma**] <Social Studies>

27. Half the distance between the two foci ("foh-sigh") of these shapes can form a Pythagorean triple with its semimajor and semiminor axes. The equation "x squared plus two y squared equals 1" graphs this shape, whose eccentricity is less than a parabola. What shape resembles a stretched circle?
ANSWER: **ellipse**s [accept **circumellipse]** <Math>

28. This artist never finished a sculpture in which a nude woman holds an icon of the sun titled *Truth Unveiled By Time*. This sculptor created the tomb of Alexander VII. An angel with a spear stands over a woman in what sculptor's *The Ecstasy of St. Theresa*?
ANSWER: Gian Lorenzo **Bernini** <Fine Arts>

29. This author's collection *Blind Willow, Sleeping Woman* contains the short story "Firefly," which he adapted into a novel about a man visiting Naoko at a psychiatric institution called Ami Hostel. What Japanese author and owner of a jazz bar wrote *Norwegian Wood*?
ANSWER: Haruki **Murakami** [or **Murakami** Haruki] <Language Arts>

30. This neurotransmitter is released by enterochromaffin (“en-TER-oh-chrome-AFF-in”) cells to aid in digestion. What molecule’s reuptake is regulated by the medicines Zoloft and Prozac?
ANSWER: **serotonin** [or **5-HT** or **5-hydroxytryptamine** or **5-hydroxytryptophan**; accept **selective serotonin reuptake inhibitor**s] <Science>

1. Answer the following about the Last Supper:
1. The Last Supper is the final meal this man has with his apostles before his crucifixion.
ANSWER: **Jesus** Christ [or **Jesus** of Nazareth]
2. The Last Supper provides the scriptural basis for this sacrament, which involves the blood and body of Christ.
ANSWER: Holy **Communion** [or **Eucharist**; prompt on Lord's Supper]
3. After the Last Supper, Jesus gives this discourse in which he compares himself to a "true vine."
ANSWER: **Farewell** Discourse
4. During the Last Supper, Jesus foretells that Peter will engage in this action three times before the cock crows.
ANSWER: **denial** [or **deny knowing** Jesus; or claim to **not know** Jesus or equivalents]

2. Answer the following about Batman's villains.
1. Feline-themed villain with the name Selina Kyle who wields a whip as she steals jewels around Gotham.
ANSWER: **Catwoman**
2. Green-skinned villain with the name Pamela Isley ["PAM-uh-luh eye-slee"] who uses her pheromones to seduce people.
ANSWER: Poison **Ivy**
3. Villain often clad in a green coat with a bowler hat with the name Edward Nygma ["nihg-mah"]
ANSWER: The **Riddler**
4. Former district attorney of Gotham known as Harvey Dent who was attacked by Sal Maroni with acid.
ANSWER: **Two-Face**

3. Answer the following about *Beowulf*.
1. *Beowulf* was written in this ancient language used to write poems in the Exeter Book.
ANSWER: **Old English**
2. Wiglaf helps Beowulf kill one of these creatures near the end of the epic. Legendarily, one of these creatures was killed by Saint George.
ANSWER: **dragons**
3. Beowulf fights the monster Grendel after he terrorized the mead all of Heorot, which was owned by this king of the Danes.
ANSWER: **Hrothgar**
4. This poet wrote a famed translation of Beowulf. This poet described a "four-foot box, a foot for every year" while mourning his brother in the poem "Mid-Term Break."
ANSWER Seamus **Heaney**

4. Answer the following about Mehmed II:
1. Mehmed II was a ruler of this empire that ruled Anatolia. This empire's first ruler was Osman.
ANSWER: **Ottoman** Empire[accept **Ottoman** Sultanate or **Osmanlı Devleti**]
2. Mehmed II captured this city in 1453. It was the capital of the Byzantine and Ottoman empires.
ANSWER: **Constantinople** [accept **Istanbul**; prompt on Byzantium]
3. Mehmed II enlisted the help of this person to break down the walls of Constantinople. This Hungarian gunsmith built giant cannons that were able to breach the walls of the city.
ANSWER: **Orban** [or **Urban**]
4. Mehmed II also faced resistance from this man, who is considered the national hero of Albania. Mehmed and his father Murad II failed to take this man's fortress at Kruje.
ANSWER: **Skanderbeg**

Quarter Three

CATEGORY: Central Asian Geography
Answer the following about the geography of Central Asia:
1. World's largest country, which borders Central Asia to the North.
ANSWER: **Russia** [or **Russian** Federation]
2. Pan-Asian trade route that once spanned Central Asia from China to Europe.
ANSWER: **Silk Road** [or ***Sīchóu zhī lù***]
3. Central Asian country where the Taliban currently rule from Kabul.
ANSWER: Islamic Emirate of **Afghanistan**
4. Central Asian country that is the world's largest country to be fully landlocked.
ANSWER: Republic of **Kazakhstan**
5. Massive Central Asian "sea" that is actually the world's largest lake
ANSWER: **Caspian** Sea
6. Persecuted Turkic ethnic group predominantly found in China's northwestern Xinjiang region.
ANSWER: **Uyghur**s [or **Uyghur**lar; or **Wéiwú'ěr**]
7. Ancient Central Asian region south of the Amu Darya, which names a type of camel.
ANSWER: **Bactria** [accept **Bactrian** camel]
8. Largest ethnic group in a country whose sparse Gorno-Badakhshan region is covered by the Pamir Mountains.
ANSWER: **Tajiks**
9. Capital of a country whose flag depicts a yellow, forty-pointed sun on a red background.
ANSWER: **Bishkek**
10. Fertile region of eastern Uzbekistan and southern Kyrgyzstan centered on the place where the Syr Darya starts.
ANSWER: **Ferghana** Valley

CATEGORY: Russian Composers
Given compositions, name the Russian composer:
1. *Swan Lake* and the *1812 Overture*.
ANSWER: Pyotr Ilyich **Tchaikovsky** [or Peter Ilyich **Tchaikovsky**]
2. *The Rite of Spring* and *The Firebird*.
ANSWER: Igor **Stravinsky** [or Igor Fyodorovich **Stravinsky**]
3. *Peter and the Wolf* and *Romeo and Juliet*.
ANSWER: Sergei **Prokofiev** [or Sergei Sergeyevich **Prokofiev**]
4. *Night on Bald Mountain* and *Pictures at an Exhibition*.
ANSWER: Modest **Mussorgsky** [or Modest Petrovich **Mussorgsky**]
5. Fifteen symphonies, one of which includes an "invasion theme," and fifteen string quartets.
ANSWER: Dmitri **Shostakovich** [or Dmitri Dmitriyevich **Shostakovich**]
6. *Russian Easter Festival Overture* and *The Tale of Tsar Saltan*.
ANSWER: Nikolai **Rimsky-Korsakov** [or Nikolai Andreyevich **Rimsky-Korsakoff**]
7. *Prometheus: the Poem of Fire*, which includes his "mystic chord," and the "White Mass" Piano Sonata.
ANSWER: Alexander **Scriabin** [or Alexander Nikolayevich **Scriabin**]
8. *A Life for the Tsar* and *Ruslan and Lyudmila*.
ANSWER: Mikhail **Glinka** [or Mikhail Ivanovich **Glinka**]
9. *Morceaux de fantaisie* and *Études-Tableaux*.
ANSWER: Sergei **Rachmaninoff** [or Sergei Vasilyevich **Rachmaninoff**]
10. *Tamara* and *Islamey*. He is usually considered the leader of the Mighty Five.
ANSWER: Mily **Balakirev** [or Mily Alexeyevich **Balakirev**]

CATEGORY: Nazi-Occupied Countries

Name the country in which the Nazis…

1. Invaded in 1939, marking the start of World War II?

ANSWER: **Poland**

2. Invaded in 1941 as part of Operation Barbarossa, leading to the siege of Stalingrad?

ANSWER: **Soviet Union** [or **USSR**]

3. Fought against the Maquis resistance and set up the Vichy regime?

ANSWER: **France**

4. Invaded and annexed the Sudetenland?

ANSWER: **Czechoslovakia** [or **Czech Republic** or **Czechia**]

5. Fought against partisans led by Josip Broz Tito?

ANSWER: **Yugoslavia**

6. Forced King Leopold III to abdicate?

ANSWER: **Belgium**

7. Installed Vidkun Quisling as a puppet prime minister?

ANSWER: **Norway**

8. Forced Queen Wilhelmina to flee to London after its 1940 occupation?

ANSWER: The **Netherlands** [or **Holland**]

9. Invaded after the fall of the Metaxas regime?

ANSWER: **Greece**

10. Annexed the Memel Territory in March 1939?

ANSWER: **Lithuania**

Quarter Four

31. At this battle, Thomas Jackson was given the nickname “Stonewall” by Barnard Bee. Irvin McDowell’s defeat at this battle in Virginia led to his replacement by George McClellan. Name this first major Civil War battle.
ANSWER: **First** Battle of **Bull Run** [or **First** Battle of **Manassas**; prompt on Bull Run or Manassas] <Social Studies>

32. Estimators unbiased with respect to this quantity minimize risk relative to the absolute-deviation loss function. This value, which lies between two similar measures in skewed distributions, appears at the second quartile. For an even number of discrete values, this quantity is found by taking the mean of the two middle values. What measure of central tendency is often reported alongside the mean and the mode?
ANSWER: **median** <Math>

33. A commander who died during this battle was honored with the Nike of Callimachus. The Carneia (“kar-NAY-uh”) festival prevented Sparta from participating in this battle. Miltiades (“mill-TYE-uh-deez”) defeated Persian forces at what 490 BCE battle?
ANSWER: Battle of **Marathon** <Social Studies>

34. In this play, Monsieur Loyal leaves after evicting Orgon and his family in order for the title character to claim his alleged inheritance. Name this play about the title “wretch, murderer, and thief” from a Moliere play.
ANSWER: ***Tartuffe*** <Language Arts>

35. Pencil and paper ready. This is a 20-second calculation question. If the sine of an angle alpha equals 5/13 (“five over thirteen”), what is the positive value of the sine of two alpha equal to?
ANSWER: **120/169** <Computational Math>

36. This novel’s protagonist encounters the flaming princess after meeting the title character in Guillaume’s bar while his girlfriend is away in Spain. David struggles with his homosexuality in what James Baldwin novel set in Paris?
ANSWER: ***Giovanni’s Room*** <Language Arts>

37. This figure transformed Scylla (“SILL-uh”) into a monster. This mother of Telegonus uses spells that are thwarted when Hermes gives a hero the herb moly to be used on Aeaea (“ee-EE-uh”). What sorceress transformed Odysseus’s crew into pigs?
ANSWER: **Circe** <Mythology/Religion/Philosophy>

38. This 2025 movie, which is inspired by an event where a gift box disables a “security” device, is about the death of a girl named Charlotte Emily. What sequel features “toy” versions of animatronics such as Chika and Bonnie?
ANSWER: ***Five Nights at Freddy's 2*** [or ***FNaF 2***; reject “Five Nights at Freddy’s”] <Current Events/Pop Culture>

39. This rock is our greatest source of gallium via the Bayer process. In one process, an oxide from this rock is dissolved in molten cryolite and electrolyzed. The Hall–Héroult process produces the aluminum first sourced from which rock?
ANSWER: **bauxite** [reject “alumina,” which is a compound] <Science>

40. This author wrote about the bookbinder Hyacinth Robinson and the title beautiful revolutionary in the novel *Princess Casamassima*. Which author of *Daisy Miller* wrote about ghosts in *The Turn of the Screw*?
ANSWER: Henry **James** <Language Arts>

41. This president was born at Virginia's Greenway Plantation. Two members of this president's Cabinet died on the USS *Princeton*. What man's presidency saw the Aroostook War end with the signing of the Webster-Ashburton Treaty in 1842?
ANSWER: John **Tyler** <Social Studies>

42. What structures, whose behavior is described by the Glen-Nye law, possess a "firn line" that separates their zones of accumulation and ablation, which either add or remove their frozen material?
ANSWER: **glacier**s [accept alpine **glacier**s or continental **glacier**s; prompt on ice sheets] <Science>

43. Pencil and paper ready. This is a 20-second calculation question. What is the greatest common factor of 143 and 187?
ANSWER: **11** <Computational Math>

44. This saint persuaded the last Avignon ("ah-veen-YON") pope, Gregory XI ("the eleventh"), to return to Rome. This saint received a "ring of flesh" during her "mystical marriage" with God. Name this Dominican saint who was born in Siena.
ANSWER: **Catherine** of Siena [reject "Catherine of Alexandria"] <Mythology/Religion/Philosophy>

45. In math, this symbol indicates a binary equivalence relation. This symbol for approximation is used as a diacritic in the Spanish last name Peña ("PAIN-yah"). What punctuation mark is typically found under the escape key on a keyboard?
ANSWER: **tilde** [prompt on twiddle] <Language Arts>

46. Spinlocks exist in one of these constructs until the lock is available. Predicting whether or not a program contains one of these constructs is known as the halting problem. Name these constructs exemplified by "while True."
ANSWER: **infinite loop**s [or **endless loop**s; accept any answers describing a loop that never terminates; prompt on loops] <Science>

47. In this piece, an "F, A-flat, A-flat" played by the English horn begins a theme in its Largo movement. A flute solo in this piece was inspired by the spiritual "Swing Low, Sweet Chariot." A trip to the U.S. inspired what symphony by Antonín Dvořák ("d'VORE-zhahk")?
ANSWER: "From the **New World**" Symphony [or ***New World*** *Symphony*; or *Symphony No.* ***9*** *in E minor* by Antonín **Dvořák**; or **Dvořák 9**; accept **9**th Symphony after "Dvořák" is read] <Fine Arts>

48. Helga is buying cattle tickets for a cattle lottery where one-third of all the cattle tickets win. If she purchases four tickets, what is the probability that at least one of them wins?
ANSWER: **65/81** <Computational Math>

49. A book titled for this concept by Joseph M. Williams is subtitled "Lessons in Clarity and Grace." The "elements of" what concept were summarized in a Strunk and White book that aids writers in the use of proper English grammar?
ANSWER: **style** [accept *The* ***Elements*** *of Style* or ***Style****: Lessons in Clarity and Grace*] <Language Arts>

50. At the 2004 NFL Draft, this NC State quarterback was selected by the Giants, who received Eli Manning by trading him to the Chargers. What 44-year-old quarterback was signed in December 2025 by the Indianapolis Colts?
ANSWER: Philip **Rivers** <Current Events/Pop Culture>