THE LONG ISLAND QUIZ BOWL ALLIANCE

New 4-Quarter Sample, High School

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First Quarter

1. This capital city contains the oldest astronomical clock in the world in its Old Town Hall. Václav Havel ("VAHT-slahv HAH-vel") Airport is located in what capital city, the historical center of Bohemia?
ANSWER: **Prague** <Geography>

2. In the French language, what does "sept fois trois moins neuf égale" ("sehpt fwah twah mwahn noof AY-gahl")?
ANSWER: **twelve** [or **douze]** <Foreign Language>

3. This character is avenged by his mother, a descendant of Cain, and he is disturbed by the sounds of revelry coming from Heorot ("HEE-uh-rot"). Name this monster killed by the title character's bare hands in *Beowulf*.
ANSWER: **Grendel** <Literature>

4. Pencil and paper ready. This is a 20-second calculation question. What is the solution when you divide the number of degrees in the sum of the interior angles of a regular octagon with the degrees of a single interior angle in a regular pentagon?
ANSWER: **10** <Computational Math>

5. 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"] <Religion>

6. In this piece, an (read slowly) "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>

7. This vitamin is isomerized from its 11-cis form to its all-trans form when interacting with light in the eye. What vitamin is common in plants as a pigment called beta-carotene?
ANSWER: vitamin **A** [accept **beta-carotene** before mentioned; accept **retinal** or **retinol** or **retinoid** or **retinoic acid**] <Science>

8. This metallic element is used to make precise apochromat lens as part of fluorite and is bound to phosphates and non-metallic ions in dental apatite. What element is found as a hydrated sulfate in carvable alabaster, a type of gypsum?
ANSWER: **calcium** [or **Ca**; accept **calcium** fluorite or **calcium** sulfate dihydrate or **calcium** phosphate] <Science>

9. This emperor was given the elephant Abul-Abbas by Harun al-Rashid ("hah-ROON ahl-rah-SHEED"). What emperor's campaign at Roncevaux ("RON-suh-voh") Pass against the Basques is depicted in a chanson ("shahn-SAWN") titled *The Song of Roland*?
ANSWER: **Charlemagne** [or **Carolus Magnus** or **Charles I** or **Charles the Great**; prompt on Charles] <History>

10. Pencil and paper ready. This is a 20-second calculation question. In degrees, what is the larger angle between the two hands of a standard clock at 9:50 PM?
ANSWER: **355** degrees <Computational Math>

Second Quarter

Tossups

1. This novel's title character stops working for the Harlings because they prevent her from attending dances. In this novel, the protagonist kills a rattlesnake, which impresses a resident of (*) Black Hawk, Nebraska. Jim Burden's childhood friendship with the title Czech immigrant is recounted in what Willa Cather novel?
ANSWER: ***My Ántonia*** <Literature>

2. Samuel Tilden refused to relocate this man's imprisonment from Ludlow Street Jail. The Orange Riots began the political downfall of this man, who was often depicted as a vulture in (*) Thomas Nast's *Harper's Weekly* cartoons. What late 19th century New York politician ran the corrupt Tammany Hall?
ANSWER: Boss **Tweed** [or William "Boss" **Tweed**] <History>

3. This word is used to describe a spell of military duty done overseas. Upper-class youths used to travel Europe as part of a "Grand" type of this activity. The "de force" type of this action refers to an impressive display of (*) skill. This word precedes "guide" for someone who leads expeditions. What word can mean a journey in which several places are visited for leisure?
ANSWER: **tour** [or **tour** of duty; or Grand **Tour**; or **tour** de force; or **tour** guide] <Vocabulary>

4. During this process the end of a molecule is immediately capped with m7G. For nuclear genes, exons and introns are spliced during or after this process in order to generate an (*) end product of mature molecules. What process produces messenger RNA to be used for translation?
ANSWER: **transcription** <Science>

5. A figure used magical dirt called xirang ("SHEE-rong") to counter one of these events. Vishnu's first avatar, Matsya ("MOTS-yah"), helps Manu survive one of these events. Yu the Great spent 13 years fighting one of these events using (*) ditches. Name these catastrophic events, which Noah survived by building an ark.
ANSWER: **flood**s [or **deluge**; accept answers mentioning a great **flood** or worldwide **flood**] <Mythology>

Bonuses

1. Answer the following about organic chemistry:
1. Organic chemists work with chemicals that all have this element and may include hydrogen. This element's dioxide is exhaled in cellular respiration.
ANSWER: **carbon** [accept **C**]
2. Benzene is a six-membered example of this type of structure. When these structures have delocalized electrons, they are called aromatic.
ANSWER: **ring**s
3. Coordination complexes have an element from this block of the periodic table in their center.
ANSWER: **transition metal**s [accept **d-block** elements]
4. Coordination complexes with this molecular structure have 6 ligands around a central atom. Prussian blue is a coordination complex with this molecular geometry.
ANSWER: **octahedral**
<Science>

2. Answer the following about famous employees of NASA.
1. The phrase "one small step for man, one giant leap for mankind" was said by this astronaut, the first to walk on the moon.
ANSWER: Neil **Armstrong**
2. This member of the Mercury Seven became the first American to orbit the Earth before a lengthy stint as an Ohio senator.
ANSWER: John **Glenn** [or John Herschel **Glenn** Jr.]
3. This astronaut became the first American woman in space and later investigated the Columbia disaster as a member of the Rogers Commission.
ANSWER: Sally **Ride**
4. Along with Dorothy Vaughan and Mary Jackson, this African-American "human computer" was an employee at NASA as recounted in the film *Hidden Figures*.
ANSWER: Katherine **Johnson** [or Creola Katherine **Johnson**]
<History>

3. Name these baseball teams that Shohei Ohtani ("show-HEY oh-TAWN-ee") has played for:
1. Ohtani was the MVP of the 2023 World Baseball Classic, where he played for this country. Yu Darvish and Masataka Yoshida also played for this East Asian country.
ANSWER: **Japan** [or **Nihon**-koku or **Nippon**-koku]
2. Ohtani currently plays for this California-based NL West team, which beat the Yankees in the 2024 World Series.
ANSWER: Los Angeles **Dodgers** [prompt on Los Angeles or L.A.]
3. Ohtani made his MLB debut with this AL team, which hasn't made the postseason since 2014.
ANSWER: Los Angeles **Angels** [prompt on Los Angeles or L.A.]
4. Ohtani made his professional debut with this NPB team, whose parent organization is a food processing company. This team formerly played in the Sapporo Dome.
ANSWER: **Hokkaido** Nippon-Ham **Fighters** [accept either]
<Pop Culture>

4. Answer the following about tomatoes in literature:
1. This Chilean author of *Twenty Love Poems and a Song of Despair* wrote an ode addressed to a tomato.
ANSWER: Pablo **Neruda** [or Ricardo Eliécer Neftalí **Reyes** Basoalto]
2. Bee Wilson introduced a collection of recipes titled for this author's tomato soup cake. She wrote about a "man with a Meinkampf look" in "Daddy."
ANSWER: Sylvia **Plath** [or *Sylvia **Plath**'s Tomato Soup Cake*]
3. Sally Tomato uses his prison visitor Holly Golightly to run a drug ring in this Truman Capote novella.
ANSWER: ***Breakfast at Tiffany's***
4. A man praises the "dreadfully eternal" line "why must it always be tomato soup?" in a short story by this author, "Bliss."
ANSWER: Katherine **Mansfield** [or Katherine Mansfield **Beauchamp**; or Katherine Mansfield **Murry**]
<Literature>

5. Answer the following about the guillotine ("GEE-yuh-TEEN"):
1. The guillotine was invented by Antoine Louis and named for Joseph-Ignace Guillotin, both of whom were physicians from this European country.
ANSWER: **France** [or **French** Republic or République **française**]
2. This composer depicted an execution by guillotine and a severed head bouncing down some steps in the movement "March to the Scaffold" from his 1830 work *Symphonie fantastique*.
ANSWER: Hector **Berlioz** [or Louis-Hector **Berlioz**]
3. The is-ought problem is also known as this Scottish philosopher's "guillotine." A missing shade of blue is discussed in this man's 1748 work *An Enquiry Concerning Human Understanding*.
ANSWER: David **Hume**
4. Two leaders of this anti-Nazi group, the siblings Hans and Sophie Scholl, were executed by guillotine in Munich in 1943. The name of this non-violent group includes a color and a type of flower.
ANSWER: **White Rose** [or **Weiße Rose**]
<General Knowledge>

Third Quarter

Team A

1.
30 - In one paper, this scientist used Brownian motion as evidence for the existence of atoms.
20 - During his *Annus Mirabilis*, this scientist published a paper describing the photoelectric effect in terms of quantized light.
10 - What German-born physicist developed the theories of special and general relativity?
ANSWER: Albert **Einstein** <Science>

2.
30 - This leader was successfully rescued from jail during the Gran Sasso Raid led by Otto Skorzeny.
20 - This man, who was the editor of the *Avanti!* newspaper, gained power through the Acerbo ("ah-CHAIR-bo") Law and led Blackshirts on a march in his capital.
10 - Nicknamed "Il Duce," ("eel DOO-cheh") what fascist dictator led Italy into World War II?
ANSWER: Benito **Mussolini** <History>

3.
30 - This artist's signature butterfly monogram appears on works such as *Portrait of Thomas Carlyle*.
20 - Firework sparks are depicted over water in this artist's *Nocturne in Black and Gold*.
10 - A black dress and white bonnet are worn by what artist's mother in the painting *Arrangement in Grey and Black No. 1*?
ANSWER: James Abbott McNeill **Whistler** <Fine Arts>

4.
30 - This prefix appears in the name of the branch of economics that studies individual decisions. This prefix describes a chip used in integrated circuits.
20 - This prefix appears before "scope" in a device for viewing small objects.
10 - What prefix appears before "wave" in a kitchen appliance used to heat up food?
ANSWER: **micro** [or **micro**economics; or **micro**chip; or **micro**scope; or **micro**wave] <Vocabulary>

5.
30 - This hero defeated the bandits Sciron ("SAI-ron") and Procrustes ("pro-CRUSS-teez") on his way to Athens.
20 - When this man forgot to change his sails from black to white, King Aegeus ("EE-gee-us") threw himself into the sea, thinking he was dead.
10 - Ariadne helped this figure navigate through the Labyrinth with a magical ball of yarn. Name this Greek hero who slew the Minotaur.
ANSWER: **Theseus** <Mythology>

Team B

1.
30 - An author with this last name wrote *Nox* and translated Sappho in *If Not, Winter*.
20 - A “strange blight” of white powder was discussed by an author with this last name in her book about the eggshell-thinning effects of the pesticide DDT.
10 - What is the last name of the author Rachel, who wrote *The Sea Around Us* and *Silent Spring*?
ANSWER: **Carson** [or Anne **Carson**; or Rachel **Carson**] <Literature>

2.
30 - Due to poor shielding against 4f electrons, this quantity decreases in lanthanide contraction.
20 - Helium has the smallest value of this quantity, while francium (“France-ium”) has the largest. This quantity decreases across a period because the increased nuclear charge creates a stronger attraction.
10 - Name this quantity that represents the distance from an atom's nucleus to its outermost electron.
ANSWER: atomic **radius** [or ionic **radius**; prompt on particle size] <Science>

3.
30 - Erysichthon (“AIR-ih-SICK-thon”) was cursed with eternal hunger for destroying one of these objects sacred to Demeter.
20 - Ratatoskr (“RAT-uh-tosk-ur”) is a squirrel that runs between the top and bottom of one of these objects in order to deliver messages.
10 - What objects are exemplified by Yggdrasil (“IG-druh-sil”) in Norse mythology and include an oak variety sacred to Zeus?
ANSWER: **tree**s [accept sacred **grove**s; accept World **Trees** or sacred **tree**s; accept **oak** trees before mention] <Mythology>

4.
30 - During a conflict in this country, Evelyn Baring helped put down a revolt against poor-quality land.
20 - The Mau Mau Rebellion occurred in this country, whose most populous city was once the capital of British East Africa.
10 - What country, governed from Nairobi, was led by Jomo Kenyatta during the 20th century?
ANSWER: **Kenya** <History>

5.
30 - This figure, who was told by God “I am who I am,” disobeyed God by striking a rock twice instead of speaking to it.
20 - This figure broke two stone tablets after seeing his people worship the golden calf.
10 - On Mount Sinai, God delivered the Ten Commandments to what prophet who parted the Red Sea while leading the Israelites out of Egypt?
ANSWER: **Moses** [or **Moshe**; or **Musa**] <Religion>

Fourth Quarter

1. A New Kingdom capital with this name contained the Temple of Karnak within the area of modern-day Luxor. The Spartans were crushed at Leuctra by a Greek city of what name that employed the "Sacred Band"?
ANSWER: **Thebes** [prompt on Luxor or El-Karnak before mentioned] <History>

2. In this country's mythology, bunyips may inhabit waterholes that help trace routes called songlines. According to the mythology of what country did the Rainbow Serpent create the world during the Dreamtime?
ANSWER: **Australia** [or Commonwealth of **Australia**] <Mythology>

3. Pencil and paper ready. This is a 30-second calculation question. Within a circular vat used for grape stomping, a central angle of 45 degrees is subtended by a circular arc of 3 meters. What is the radius of the circular vat?
ANSWER: **12/pi** ("twelve over pi") [or **12 times pi^{-1}**] <Computational Math>

4. On this show, Pedro Alonso portrays Berlin, who sings the Italian resistance song "Bella Ciao" in a flashback. The Professor orchestrates a robbery on the Royal Mint of Spain in what Spanish-language crime drama?
ANSWER: ***Money Heist*** [or *La* ***casa de papel***] <Pop Culture>

5. This man, who vowed to continue for as long as he was "physically able," gave a speech dedicated to John Lewis that broke a record held by Strom Thurmond. Name this man from New Jersey who broke a Senate record by giving a 25-hour speech.
ANSWER: Cory **Booker** <Current Events>

6. Members of a UFO cult who exhibited this phenomenon were chronicled in the book *When Prophecy Fails* by Leon Festinger. What psychological discomfort arises when a person has two conflicting beliefs?
ANSWER: **cognitive dissonance** [prompt on dissonance] <Social Science>

7. After this composer met Mathilde Zemlinsky, he wrote a one-movement string sextet titled *Transfigured Night*. What leader of the Second Viennese School composed *Pierrot Lunaire* ("p'yair-OH loo-NAIR") and developed the twelve-tone technique?
ANSWER: Arnold **Schoenberg** ("SHERN-berg") <Fine Arts>

8. One of these regions, which possess radii equal to $2GM/c^2$ ("two big G M over the speed of light squared"), meets the exterior ergosphere at the poles in the rotating Kerr metric. What regions are considered the "point of no return" within a black hole?
ANSWER: **event horizon**s [prompt on horizon] <Science>

9. A quote from this book titles Henry James' novel *The Golden Bowl*. Which book of the Bible, which is referenced at the end of *Fahrenheit 451* with the line "To everything there is a season," includes the line "All is vanity"?
ANSWER: **Ecclesiastes** <Literature>

10. Pencil and paper ready. This is a 30-second calculation question. Given a triangle whose three sides have lengths of 4, 7, and 9, find the exact solution for the cosine of the triangle's largest angle.
ANSWER: cos(angle) = **- 2/7** ("negative two-sevenths" or "negative two over seven") <Computational Math>

11. Henry Hunt's speech in this city preceded an 1819 massacre. *The Guardian* newspaper was founded in this city, the site of the Peterloo Massacre. What center of textile production during the Industrial Revolution is England's third most populous city?
ANSWER: **Manchester** <History>

12. Pencil and paper ready. This is a 30-second calculation question. If you have a cube with a side length of 6 and use it as the basis for a larger cube with a volume 27 times larger, what is the longest interior diagonal of the larger cube?
ANSWER: **18√3** ("eighteen root three" or "eighteen times root three" or "eighteen square root three") <Computational Math>

13. This is the number of carbons in heavily-strained norbornene. This is also the number of carbons in toluene, which is also known as methylbenzene. What is the sum of carbons in one butane and one propane?
ANSWER: **seven** <Science>

14. This woman's rendezvous with Don Issachar and Grand Inquisitor ends when her lover kills them. Name this daughter of Baron Thunder-ten-Tronckh ("thunder-ten-TRONK") who is the student of Dr. Pangloss and lover of Candide.
ANSWER: Lady **Cunégonde** ("koo-nay-GOND") <Literature>

15. Pencil and paper ready. This is a 30-second calculation question. A right triangle has a hypotenuse of 41 and one side length of 40. What is the result of multiplying 3 by the tangent of the triangle's smallest angle?
ANSWER: **27/40** [or 0**.675**] <Computational Math>