THE LONG ISLAND QUIZ BOWL ALLIANCE

IHSA-Style Sample, Junior Varsity

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1. This is the older deity celebrated in a festival that involved piglets being sacrificed and thrown into pits; that festival was Thesmophoria. This deity ate the shoulder of Pelops. Name this deity who created the seasons after her daughter was forced to live in the underworld with Hades for six months each year.
ANSWER: **Demeter**

2. Cayley's theorem states that every group is isomorphic to a subgroup containing these operations. Every one of these objects can be represented as a product of transpositions. There are n factorial different versions of these operations given n objects. Name this operation that refers to arrangements of sets where order matters?
ANSWER: **permutation**s

3. In the 19th century, the mayor Neal Dow enacted a law named for this state to ban alcohol sales. A politician from this state who lost the 1884 presidential election ran on a ticket championing "Rum, Romanism, and Rebellion." James Blaine was from what New England state led from Augusta?
ANSWER: **Maine** [or **ME**]

4. In this opera, a character vows to love Micaëla ("mee-kah-EH-lah") after she delivers a letter from his mother. The title character of this opera entertains officers at Lillas Pastia's Inn, where another character introduces himself in the "Toreador Song." Name this Georges Bizet ("bee-ZAY") opera whose title character declares that "love is a rebellious bird" in her "Habanera" ("ah-bah-NAIR-ah").
ANSWER: ***Carmen***

5. This ruler was the first to exile Athanasius of Alexandria to Trier. While fighting Maxentius, this man observed a chi-rho and the phrase "in hoc signo vinces" during the Battle of Milvian Bridge, and he executed his wife Fausta. What Roman emperor issued the Edict of Milan and was the first to convert to Christianity?
ANSWER: **Constantine the Great** [accept **Constantine I**; prompt on Constantine]

6. In this story, the narrator calls two characters "children who were not wise," unlike the story's title figures. After realizing she has just one dollar and eighty-seven cents, a woman in this story decides to buy a present for Jim by selling her hair, meaning that she cannot use the combs she received. Name this story by O. Henry.
ANSWER: "The **Gift of the Magi**"

7. This emperor established a secret police called the frumentarii ("froo-men-TAIR-ee") and ordered the execution of Lusius Quietus. This emperor suppressed the Bar Kokhba ("COKE-bah") Revolt in Judea and built a villa in Tivoli. What emperor succeeded Trajan, had the Pantheon built, and names a long wall in modern-day England?
ANSWER: **Hadrian**

8. It's not suicide, but the concept of anomie ("ah-no-MEE") is linked to this phenomenon in a "strain theory" posited by Robert Merton. Visible disorder in a neighborhood increases this phenomenon according to the "broken windows" theory. What behavior's "white-collar" type includes racketeering and embezzlement?
ANSWER: **crime**

9. This quantity and TDS can be calculated using conductivity measurements via the PSS-78 scale. Differences in temperature and this quantity drive thermohaline circulation. This quantity changes rapidly with depth at the halocline. The Dead Sea has a high amount of what quantity, which is the amount of salt dissolved in a body of water?
ANSWER: **salinity** [accept **salt** content or **salt** concentration before "salt"; accept **chlorinity** or **chlorine** content or **chlorine** concentration or **chloride** concentration or **chloride** content before "salt"]

10. In this national park in 2017, Alex Honnold climbed a 3,000 foot tall rock formation using a "free solo" method. The 19th-century mountaineer John Muir explored much of the Hetch Hetchy Valley in this national park. The rock formations Half Dome and El Capitan are located in what national park in California?
ANSWER: **Yosemite** National Park

11. Trios of these figures named for Malfatti are never space-optimizing. Pairs of these figures named for Frederick Soddy can be viewed as a case of Descartes' theorem concerning examples of them that touch at one point. A "nine-point" one of these shapes has one-fourth the area as one that passes through all three vertices of a triangle. Triangles can be contained in the "circum-" type of what shapes whose area is r squared times pi?
ANSWER: **circle**s [accept Malfatti **circle**s, Soddy **circle**s, nine-point **circle**s, or circum**circle**s]

12. This author described a prank in which he placed a mouse in a sweet-shop in his autobiography *Boy*. In a novel by this author, a girl falls down a rubbish chute while trying to catch a squirrel that tests nuts. Veruca Salt is one of five children that win a tour in a novel by this author. Oompa-Loompas make sweets in what author's novel *Charlie and the Chocolate Factory*?
ANSWER: Roald **Dahl**

13. Precession can be free of or induced by this quantity. In an analogue of Newton's first law, this quantity equals angular acceleration times the moment of inertia. This quantity also equals the cross product of force and lever arm. Name this quantity, the rotational analogue of force.
ANSWER: **torque** [prompt on **tau**]

14. This film has the hunter Quint smash a radio after drunkenly detailing the sinking of the USS *Indianapolis*. A character played by Roy Scheider notes that "You're gonna need a bigger boat" after seeing the title creature. What 1975 Steven Spielberg blockbuster sees the town of Amity Island get terrorized by a great white shark?
ANSWER: ***Jaws***

15. A member of this art movement was patronized by Edward James to create the *Lobster Telephone*. That artist from this movement painted a scene featuring ants crawling on a watch near a melting clock. The painter of *The Persistence of Memory*, Salvador Dalí, was a member of what art movement which used dreamlike and illogical imagery?
ANSWER: **surrealism** [accept word forms such as **surrealist**]

16. At this title location, a visitor awakes to the cone of a fir tree rattling his window. The housekeeper Nelly Dean tells Mr. Lockwood about the history of this location. Thrushcross Grange is adjacent to what title estate that is surrounded by desolate moors and is owned by Heathcliff in an Emily Brontë novel?
ANSWER: **Wuthering Heights**

17. One of these substances that contains citric acid and DSP is named for Theodore McIlvaine. Twenty examples of these substances were developed by Norman Good. The pH of these substances can be found using the Henderson-Hasselbalch equation. These substances may contain a weak acid and conjugate base. What substances resist changes in pH?
ANSWER: **buffer**s [or **buffer** solutions or **buffer**ing agents]

18. On this island, André Rigaud fought the War of the Knives. Forces under Charles Leclerc were sent to quell a revolt on this island, but were decimated by yellow fever. After a successful revolt on this island, Jean-Jacques Dessalines was crowned emperor. Name this island where Toussaint L'Ouverture led the Haitian Revolution.
ANSWER: **Hispaniola** [or **Ispayaola**; or **Ayiti**]

19. This state's governor creatively used his veto power to boost school funding until the year 2425. The first openly lesbian U.S. senator currently serves this state. In April 2025, Susan Crawford won this state's Supreme Court election. Ron Johnson and Tammy Baldwin are U.S. senators from what Midwest state whose governor, Tony Evers, leads from Madison?
ANSWER: **Wisconsin** [or **WI**]

20. The linear ends of this molecule are shortened due to the end replication problem, though those ends can be lengthened by a type of reverse transcriptase. This molecule winds around histones to form nucleosomes that make up chromatin. What double-stranded molecule contains genetic information?
ANSWER: **DNA** [or **deoxyribonucleic acid**]

21. The "Appeal of 18 June" speech was given by this politician, who claimed his country "has a vast Empire behind her." *The Day of the Jackal* recounts an attempt by the OAS to assassinate this politician, who signed the Évian Accords with Algeria. What president led France to a victory in World War II?
ANSWER: Charles **de Gaulle**

22. A neighborhood in this state settled by Germans is called Over-the-Rhine. The EPA was created one year after a polluted river in this state caught fire. The Cuyahoga flows through this state, which contains Case Western Reserve University and the Rock and Roll Hall of Fame. What "Buckeye" state contains the cities of Cincinnati and Cleveland?
ANSWER: **Ohio**

23. A school of psychology named after this word was founded by Martin Seligman, and focuses on flourishing. As opposed to normative statements that provide an opinion, statements described by this word describe economic truths. Optimism can result from thinking described by what term, which focuses on the "pluses" instead of the "minuses?"
ANSWER: **positive** [or **positive** psychology; or **positive** thinking]

24. During the Battle of the Overpass, this man's security attacked Richard Frankensteen and Walter Reuther. This publisher of *The Dearborn Independent* established a settlement in Brazil to harvest rubber. What Detroit industrialist transformed the automotive industry with his Model T?
ANSWER: Henry **Ford**

1. Answer the following about saintly places in the U.S.:
1. Lewis and Clark set off from this Missouri city, which hosted the 1904 Olympics and built the Gateway Arch to celebrate its status as the start of the Western United States.
ANSWER: **St. Louis**, Missouri
2. MLB's Rays vacated Tropicana Field in this city after Hurricane Milton tore its roof off. This Florida city is separate from its larger neighbor, which hosts the Gasparilla Pirate Festival.
ANSWER: **St. Petersburg**, Florida [reject "Tampa" or "Tampa Bay"]
3. This state's largest city sits on a river that flows from Lake St. Clair. Another city in this state, Sault Ste. Marie, is on a southern riverbank across a city with the same name.
ANSWER: **Michigan** [accept **MI**]

2. Answer these questions about resistors:
1. By Ohm's Law, resistors have a constant ratio between voltage drop and this quantity, the rate of charge moving through a circuit.
ANSWER: **current**
2. This quantity of a resistor equals voltage squared divided by resistance. In general, it equals the rate of energy use per unit time and is measured in watts.
ANSWER: **power**
3. For a material of a given resistivity, the resistance of a wire of that material goes as what power of the cross-sectional area?
ANSWER: **-1**

3. Answer the following about the War of the Roses:
1. The War of the Roses concluded with this house taking the throne. Henry VII ("the seventh") was its first ruler, but Henry VIII ("the eighth") was also a member of this house.
ANSWER: House of **Tudor**
2. The House of Tudor descends from this other royal house, which fought the Lancastrians during the war. Richard III and Edward III were members of this house.
ANSWER: House of **York**
3. Richard III was killed in action at this battle, the last significant one of the War of the Roses.
ANSWER: Battle of **Bosworth Field**

4. Answer these questions about multiplication on a type of mathematical objects:
1. These objects, which can be thought of as grids of numbers, can only be multiplied if the number of columns of one of them is the same as the number of rows of another.
ANSWER: **matrices** [or **matrix**]
2. Multiplying the output of this operation by the input produces the identity matrix. This operation can only be performed on square matrices.
ANSWER: matrix **inverse**
3. This operation, which sums the entries along the main diagonal, is another operation restricted to square matrices. For n by n identity matrices, this operation equals n.
ANSWER: **trace**

5. Answer the following about an American playwright:
1. In this play, George and Martha play games with their guests, Nick and Honey, including one in which they lie about a nonexistent son.
ANSWER: ***Who's Afraid of Virginia Woolf?***
2. This author of *Who's Afraid of Virginia Woolf?* also wrote *The Zoo Story* and *The Sandbox*
ANSWER: Edward Franklin **Albee** III
3. In *Who's Afraid of Virginia Woolf?*, George tells two separate stories about young men who die in car accidents after swerving to avoid hitting one of these animals
ANSWER: a **porcupine**

6. Answer the following about musical variations:
1. A set of thirty "variations" written by J.S. Bach, speculated to have been written for Count Kaiserling, was named for this virtuoso.
ANSWER: Johann Gottlieb **Goldberg** [accept **Goldberg Variations**]
2. Another composer wrote a "Rhapsody on a Theme of" this violinist and composer of 24 Caprices for violin.
ANSWER: Niccolò **Paganini**
3. This oft-debated piece by Edward Elgar contains the "Nimrod" variation.
ANSWER: ***Enigma*** *Variations* [or ***Variations on an Original Theme***]

7. Answer the following about the *Phaedo*:
1. *Phaedo* is a dialogue by this Ancient Greek philosopher who wrote the *Republic*.
ANSWER: **Plato**
2. *Phaedo* argues that since the living come from the dead, this aspect of a person is immortal. Plato theorized that this incorporeal essence of a person was subject to a tripartite division into reason, spirit, and desire.
ANSWER: **soul** [or **psyche** or **anima**]
3. *Phaedo* relates that the execution of Socrates was delayed by an annual journey made on this vehicle. A thought experiment asks whether this vehicle remains the same if each individual part of it is changed.
ANSWER: **Ship of Theseus** [prompt on ship or boat]

8. Answer the following about the New York Yankees losing in the postseason:
1. The Yankees were knocked out of the postseason by this team, their rival, in 2004. During that ALCS, this Massachusetts-based MLB team became the only one to have reverse-swept a seven-game series.
ANSWER: **Boston Red Sox** [accept either underlined name]
2. The Yankees gave up twenty consecutive home runs over two games against this team during the 2025 ALDS. This loser of the 2025 World Series stars Vladimir Guerrero Jr. and Alejandro Kirk.
ANSWER: **Toronto Blue Jays** [accept either underlined name]
3. This Mariner hit a walk-off double to defeat the Yankees during the 1995 ALDS. This player currently names the MLB award given to outstanding designated hitters.
ANSWER: Edgar **Martínez**

9. Answer the following about a metal in history:
1. This metal, an alloy of iron and carbon, was used to make late medieval swords.
ANSWER: **steel**
2. This modern day country's city of Toledo was a center of steelworking even in Roman times. The Moriscos were expelled from this country in the 17th century.
ANSWER: **Spain**
3. This city was known for its patterned steel swords made using the wootz technique. It was the capital of the Umayyad caliphate.
ANSWER: **Damascus**

10. Answer the following about the collection *One Thousand and One Nights*:
1. In one story from the collection, this character is led to a cave where he finds a magical oil lamp that contains a genie.
ANSWER: **Aladdin** [accept "**Aladdin** and the Wonderful Lamp"]
2. In the frame story of the collection, this sister of Dunyazad tells one story each night to King Shahryar in order to delay her execution.
ANSWER: **Scheherazade**
3. A series of tales added to the collection concern Sinbad the Sailor, who finds an island populated by these animals. Sinbad ties his turban to the egg of one of these creatures, who prey on giant snakes.
ANSWER: **roc**s [prompt on birds]

11. Answer the following about an anti-inflammatory drug:
1. This drug also known as acetylsalicylic acid is used to treat headaches and thin blood to prevent heart attacks.
ANSWER: **aspirin**
2. Aspirin has the side-effect of inhibiting an enzyme which helps protect this organ's mucus lining from acid.
ANSWER: **stomach** [or **stomach** lining]
3. The bark of these trees, which have genus Salix, contains salicin, a precursor chemical to aspirin.
ANSWER: **willow** [accept types of willow like white **willow**]

12. Answer the following about regular pentagons:
1. This many regular pentagons make up the faces of a dodecahedron. Cubes have this many edges, and this number forms a Pythagorean triple with 13.
ANSWER: **twelve**
2. The ratio between a regular pentagon's diagonal length and side length is this number. The ratio between consecutive terms of the Fibonacci sequence approaches this number.
ANSWER: **golden ratio** [accept **phi**; accept **1 plus** the square **root of 5 over 2** and equivalents]
3. Truncating the vertices of this platonic solid gives an Archimedean solid with 12 pentagons and 20 hexagons, similar to a soccer ball. This platonic solid has 20 equilateral triangle faces.
ANSWER: **icosahedron**

13. Answer these questions about Jewish mysticism:
1. Kabbalists study the Zohar, a mystical commentary on these first five books of the Hebrew Bible which were traditionally revealed to Moses.
ANSWER: the **Torah** [accept the **Pentateuch**]
2. Stories in the Zohar were promoted by the Baal Shem Tov, who founded this mystical movement. Chabad-Lubavitch is the largest organization of this movement in which "rebbes" emphasize joyful worship.
ANSWER: **Hasidism** [or **Hasidic** Judaism]
3. Kabbalists frequently use this interpretive technique to assign numerical values to Hebrew letters in order to uncover "hidden meanings" and symbolic "connections" between words and passages.
ANSWER: **gematria**

14. Answer the following regarding the expansion of the United States:
1. An act named for Kansas and this state organized them, contributing to "Bleeding Kansas."
ANSWER: **Nebraska** [or **Kansas–Nebraska** Act]
2. This law granted 160 acres of land to American settlers who maintained and improved their land for at least five years. This act accelerated western settlement under the idea of Manifest Destiny and created "sodbusters."
ANSWER: **Homestead** Act [of 1862]
3. This other legislative act focused on supporting state colleges in order to develop innovations in agriculture through land grants.
ANSWER: **Morrill Land-Grant** Act [accept **Morrill** Act; prompt on Land-Grant Act]

15. Answer the following about recent developments in Thailand.
1. Protests erupted in this capital city of Thailand after Prime Minister Paetongtarn Shinawatra ("pet-on-tahn shin-ay-watt") was perceived as showing weakness during a military conflict.
ANSWER: **Bangkok** [accept **Krung Thep** Maha Nakhon]
2. Shinawatra called Cambodia's leader this kind of family member in a call. The first three letters of this familial position are used as a slang term used to call someone old.
ANSWER: **uncle**
3. This politician is the de facto leader of Cambodia, currently serving as the President of the Senate after stepping down as Prime Minister in 2023 for his son.
ANSWER: **Hun Sen** [prompt on partial answer]

16. Answer the following about the number 200:
1. What is the largest factor of 200?
ANSWER: **200**
2. What is the quotient of the second-largest factor of 200 divided by the third-smallest factor of 200?
ANSWER: **25**
3. What is the product of the largest 4 factors of 200?
ANSWER: **40,000,000** [accept **40 million** or **4 x 10^7**]

17. Answer the following about cinematography
1. Until 1966, the Oscars awarded cinematography prizes for films in color and in this visual style.The Kansas portions of *The Wizard of Oz* are in this style before switching to full color in Oz.
ANSWER: **black-and-white**
2. For his work on this movie about the life of a newspaper magnate, Orson Welles lavished praise on Gregg Toland, who crafted this movie's signature deep focus and wide-angled cinematography.
ANSWER: ***Citizen Kane***
3. Robert Yeoman was the cinematographer on most of this director's films, whose unique visual style can be seen in movies like *The Grand Budapest Hotel* and *Asteroid City*.
ANSWER: Wes **Anderson**

18. Answer the following about a disease in European history:
1. This disease spread by fleas killed 30% of the European population in the 1340s.
ANSWER: bubonic **plague** [or the **black death**]
2. This city attempted to stop the plague through a forty-day waiting period for ships, thus originating the term "quarantine." This city's Doges included Enrico Dandolo.
ANSWER: **Venice**
3. Gabriel de Mussis wrote that the Black Death was caused by the Mongols catapulting plague-infected bodies during their siege of Kaffa, a city in this region. The Thin Red Line held back a charge in this region.
ANSWER: **Crimea** [or **Crimea**n Peninsula]

19. Answer the following about the search for extraterrestrial life:
1. On this planet, NASA's Perseverance rover discovered potential signs of microbial life in a dried riverbed. This is the closest planet to Earth.
ANSWER: **Mars**
2. The Golden Records, which contained recordings of Earth for aliens, were included on both of these spacecraft. One of these spacecraft is the furthest manmade object in space.
ANSWER: **Voyager** crafts [accept **Voyager** I or II]
3. This scientist's namesake paradox asks why advanced civilizations haven't been detected yet given the size of the universe. The Great Filter and Rare Earth hypotheses attempt to explain the paradox.
ANSWER: Enrico **Fermi** [or **Fermi** paradox]

20. Answer the following about Norwegian playwright Henrik Ibsen:
1. Gergers tries convincing Hedvig to shoot one of these animals in a play by Ibsen. A bird resembling an ugly one of these animals turns out to be a swan in a Hans Christian Andersen tale.
ANSWER: **duck**s [accept *The Wild* ***Duck*** or "The Ugly **Duckling**"; prompt on birds]
2. Ibsen is best known for writing this play in which Nora Helmer walks out on her husband Torvald.
ANSWER: *A* ***Doll's House***
3. Hilda Wangel convinces the protagonist of this Ibsen play to hang a wreath on a church steeple, causing him to fall to death. Ragnar Brovin appears in this play about the architect Halvard Solness.
ANSWER: *The* ***Master Builder***

21. Answer the following about facts that are useful for Geoguessr players:
1. A snorkel is attached to the front of a car Google used to map much of this African country, whose capital is Nairobi.
ANSWER: **Kenya** [or Republic of **Kenya** or Jamhuri ya **Kenya**]
2. This Mediterranean country is differentiated from Greece by its use of all-caps place names on road signs. Its capital is Nicosia.
ANSWER: **Cyprus** [or Republic of **Cyprus**]
3. If you're dropped in a location that looks like England but has bad camera quality, you might be on this island with capital at Douglas. This island in the Irish Sea hosts a dangerous motorcycle race every May.
ANSWER: Isle of **Man**

22. Answer the following about a historical trade route:
1. A route named for this material connected European, African, and Asian trade. This material is produced by namesake worms.
ANSWER: **silk** [or **Silk** Road]
2. A branch of the Silk Road ended in this modern-day country, the center of the Fatimid Caliphate. This country was ruled by the Ptolemaic ("TOH-le-mayk") dynasty.
ANSWER: **Egypt** [or Arab Republic of **Egypt**; or **Miṣr**]
3. This Turkic empire, which controlled Egypt in the 1300s, exported textiles and spices via the Silk Route. It halted the southward expansion of the Mongols before being conquered by the Ottomans.
ANSWER: **Mamluk** Sultanate

23. Answer the following about some literary feuds:
1. Rufus Griswold feuded with this author, who left a bad review on Griswold's anthology. This author wrote the poem "The Raven" and the story "The Tell-Tale Heart."
ANSWER: Edgar Allan **Poe**
2. Two authors from this country, Henry Lawson and Banjo Paterson, used poems to attack the other's perspective in the Bulletin Debate. Paterson also wrote this country's unofficial national anthem, "Waltzing Matilda."
ANSWER: **Australia**
3. After Sinclair Lewis accused this author of plagiarism, this author slapped Lewis twice during a club banquet. This author wrote *Sister Carrie* and *An American Tragedy*.
ANSWER: Theodore **Dreiser**

24. Answer the following about flipping a coin:
1. This branch of mathematics studies the likelihood of outcomes such as heads or tails when a coin is flipped.
ANSWER: **probability**
2. Coin flips are examples of these events, where the outcome of one flip does not affect the outcome of another.
ANSWER: **independent** events
3. This eponymous theorem updates the probability of an event based on new evidence and relates conditional probabilities.
ANSWER: **Bayes** theorem