



THE LONG ISLAND QUIZ BOWL ALLIANCE

Sample Packet - Regs

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Tossups

1. Wilhelm Fitzenhagen premiered this composer's concerto-like cello piece "Variations on a Rococo Theme." This composer's final symphony contains a "limping waltz" as well as a bassoon part with a dynamic marking of six p's. A piece by this composer uses (*) "La Marseillaise" to depict the French army at the Battle of Borodino. Name this Russian composer who used cannons as an instrument in his *1812 Overture*.

ANSWER: Pyotr Ilyich Tchaikovsky

<Fine Arts>

2. After Sisyphus imprisoned Thanatos, this deity freed Thanatos to ensure that men would continue to die. This male deity is injured during the *aristeia* (uh-riss-tee-uh) of Diomedes while assisting his lover. According to Hesiod, this deity is the father of Phobos and Deimos by his mistress (*) Aphrodite, with whom he is trapped in a golden net by Hephaestus. Name this Greek god of war.

ANSWER: Ares [or Mars]

<Mythology>

3. In this city, Michele di Lando took power after protests in the Palazzo della Signoria. This city's underrepresented "wool carders" started its Ciompi ("CHOMP-ee") Revolt. A preacher in this city ordered objects of "sin" to be burned in the (*) Bonfire of the Vanities. The plague outbreak in this city influenced Giovanni Boccaccio's *Decameron*. Name this Italian city that was home to the Medicis and is known as the "Birthplace of the Renaissance."

ANSWER: Florence [or Firenze]

<History>

4. A time capsule in this play with items such as the Bible and the Constitution has the play itself added to it by its narrator. The answer "saints and poets, maybe" is given to the question of "Do any human beings realize life while they live it?" in this play. (*) George Gibbs gets milkshakes with a character who relives her twelfth birthday after her death, Emily Webb, in what play narrated by the Stage Manager and written by Thornton Wilder?

ANSWER: Our Town

<Literature>

5. This quantity is proportional to the square of charge and square of acceleration for an accelerating point charge according to Larmor's formula. For a circuit component, this quantity is equal to voltage times current, which gives the output of (*) Joule heating. This quantity is equal to the dot product of force and velocity. Name this quantity equal to work done over time or energy output per unit time, measured in watts.

ANSWER: power

<Science>

6. During this event, Thomas M'Clintock recited passages from William Blackstone's book of laws inside the Wesleyan Methodist Chapel. This event was organized by two people who were excluded from the earlier World Anti-Slavery Convention. The ninth resolution was authored by (*) Frederick Douglass during this event, which was included in the Declaration of Sentiments. Lucretia Mott and Elizabeth Cady Stanton helped to organize what women's rights conference in New York?

ANSWER: Seneca Falls Convention

<History>

7. This character is dragged away by the Gryphon ("griffin") while a Mock Turtle sings "Beautiful Soup." A caterpillar tells this character to eat a mushroom that will make her taller. This character rapidly shrinks after (*) drinking from a bottle labeled "DRINK ME." Earlier, this character falls down a hole after following the White Rabbit. Name this character whose "Adventures in Wonderland" were chronicled by Lewis Carroll.

ANSWER: Alice [accept Alice's Adventures in Wonderland or Alice in Wonderland]

<Literature>

8. When an individual lacks access to water, this practice may be preceded by tayammum (tie-am-mum), and is otherwise preceded by wudu ("woo-doo"). The time to perform this practice is signaled by the adhan (uh-don), and the dhuhr (zuh-ur) form of this practice is called jumu'ah ("JOO-moo-ah") on (*) Fridays. This practice is performed in several raka'at in the direction of the qibla ("KIB-luh"). What practice, part of the Five Pillars of Islam, is performed five times a day as salat?

ANSWER: prayer [accept salat or salah before mentioned]

<Religion>

9. After this event, community Gacaca courts excluded crimes committed by the Patriotic Front, or RPF. This event was chronicled in *Shake Hands With the Devil*. During this event, the Gikondo Massacre was committed by the Interahamwe (in-tehr-uh-HAHM-way). This event began when (*) Juvénal Habyarimana's ("hahb-yah-ree-MAH-nuh's") plane was shot down. Name this 1994 event that included the mass killings of minority Tutsis by the majority Hutus in the African country led from Kigali.

ANSWER: Rwandan genocide [accept Tutsi genocide; prompt on Rwandan Civil War]

<History>

10. When plotting both against engine speed, this quantity peaks at a lower RPM than power does. Axial precession can be induced by or "free" of this quantity. It's not energy, but this quantity's SI unit is the Newton-meter. This quantity can be increased by turning a larger (*) gear with a smaller gear, and it equals the moment of inertia times angular acceleration. What rotational analogue of force is symbolized by the Greek letter tau?

ANSWER: torque

<Science>

11. A fertile region of this island is the Golden Vale, and it was once home to a strip of land called The Pale around Kildare. The Aran Islands are located off the coast of this island. The Giant's Boot is found on a structure on the coast of this island near Bushmills called the (*) Giant's Causeway. This island's four provinces include Munster and Ulster. Dublin is the capital of a country on what island?

ANSWER: Ireland [or Eire]

<Geography>

12. A territory gained from this conflict was governed by the Kearny Code. At a battle in this conflict, the "Boy Heroes" were six child cadets who died defending a place whose name means "hill of the grasshopper." Nicholas Trist negotiated the treaty ending this war. The (*) Wilmot Proviso tried to ban slavery in lands gained by this conflict, which began under James K. Polk. The Treaty of Guadalupe Hidalgo ended what conflict between the U.S. and a southern neighbor?

ANSWER: Mexican-American War [or Mexican War]

<History>

13. These things can be classified using the Henry Classification System. The IAFIS (“EYE-fiss”) system records these things and is managed by the FBI. These things can be classified as plastic, patent, or latent based on their visibility. Superglue fuming and ninhydrin (“nin-HYE-drin”) can be used to (*) reveal invisible examples of these oil-based things, which are broadly classified into whorls, loops, and arches. Name these unique markings that are left behind when people touch surfaces with their hands.

ANSWER: fingerprints [or deramtylographs or handprints]

<General Knowledge>

14. The image of four soldiers pointing guns at each other repeats in a work by this artist that puns on the name of DNA. This man’s “nuclear mysticism” period included paintings such as *Galatea of the Spheres* and one titled for the “disintegration” of a work he completed 20 years earlier. (*) Camembert cheese inspired a painting by this artist that depicts ants crawling on melting clocks. *The Persistence of Memory* was painted by what Spanish surrealist artist?

ANSWER: Salvador Dali

<Fine Arts>

15. A man in this country is forced to draw pants on flamingoes in his paintings. In a novel set in this country, a half-German boy with brass knuckles worships *Mein Kampf* and is later hit in the eye with a slingshot. Characters from this country repeat the phrase (*) “For you, a thousand times over!” in one novel. Khaled Hosseini’s novel *The Kite Runner* is primarily set in what country, partially during its Taliban rule?

ANSWER: Afghanistan [or Islamic Emirate of Afghanistan or Da Afgānistān Islāmī Amārāt or Islamic Republic of Afghanistan or Jumhūrī-yi Islāmī-yi Afgānistān]

<Literature>

16. Polyhistidine tags bind to metal ions in the affinity type of this process, which can be governed by the van Deemter equation. Plates coated with adsorbent materials such as aluminium oxide or silica are used in the (*) thin-layer type of this process. The “paper” type of this process is commonly used in school labs to separate dyes. What process separates components of a solution by their varying speeds moving through a stationary phase?

ANSWER: chromatography [accept types such as affinity chromatography]

<Science>

17. This governor’s wife is the documentary filmmaker Jennifer Siebel (“SEE-bul”). This governor's ex-wife is Donald Trump Jr.'s fiancée, Kimberly Guilfoyle (“gill-foil”). After attending a party during the COVID pandemic at (*) The French Laundry restaurant, this governor faced a recall election. What former mayor of San Francisco is the current governor of California?

ANSWER: Gavin (Christopher) Newsom

<Current Events>

18. In this TV series, a character poisons the contents of a cup in an attempt to kill an old lady with Alzheimer's disease. A strand of orange hair from a clown wig betrays the identity of one of this show’s protagonists, who uses the pseudonym (*) Salva. Berlin sings the Italian folk song "Bella Ciao" with the Professor in the Season 1 finale of what Spanish-language drama series about elaborate crime plots?

ANSWER: Money Heist [or La casa de papel]

<Pop Culture>

19. This molecule’s tail is acted on by polyadenylate (poly-ae-dehn-e-late) polymerase to increase its stability. Drew Weissman and Katalin Karikó won the 2023 Nobel Prize in Medicine for work related to this molecule. snRNPs [“snurps”] cut this molecule in multiple ways in alternative (*) splicing, which removes introns from it. What form of genetic material is created during transcription from DNA and was first used in vaccines during the COVID pandemic?

ANSWER: mRNA [or messenger RNA; prompt on RNA or ribonucleic acid]

<Science>

20. This number closely approximates the ratio between the factorial and subfactorial functions. De Moivre's Theorem can be derived using the Taylor series of a complex power of this number. Integrating one over x gives the log with this number as its (*) base. The exponent of this number appears in the formula for compound interest, and this number is the base of the standard exponential function. What number is the base of the natural logarithm?

ANSWER: e [accept Euler's number]

<Science>

Bonuses

1. Answer the following about Erwin Rommel, the “Desert Fox.”

Rommel was a general in this Axis power’s *Wehrmacht* during World War II.

ANSWER: Nazi **Germany** [or **Deutschland**; or **Third Reich**; prompt on **Nazis**]

Rommel commanded Germany’s campaign in this broad geographical region. Dwight Eisenhower planned Operation Torch to dislodge the Germans from this non-European region.

ANSWER: **North Africa** [accept **Libya**, **Tunisia**, or **Egypt**; accept **Maghreb**; prompt on **Africa**]

Rommel’s advance into Egypt was halted at this 1942 battle in the desert that Winston Churchill called "the end of the beginning."

During this battle, Rommel was defeated by the Eighth Army under Bernard Montgomery.

ANSWER: Second Battle of **El Alamein** [reject any indication of “First Battle of El Alamein”]

<History>

2. Answer the following about iconic trumpet solos in the jazz repertoire.

This New Orleans trumpeter nicknamed "Satchmo" played a trumpet solo in "West End Blues" and sang "What a Wonderful World."

ANSWER: Louis **Armstrong**

Cab Calloway disapproved of this trumpeter's ambitious solos, such as in his standard "A Night in Tunisia." This musician shouted the name of the title food throughout the bebop track “Salt Peanuts.”

ANSWER: Dizzy **Gillespie** [or John Birks **Gillespie**]

Lee Morgan performed the trumpet solos on this hard bop standard by Bobby Timmons, which Art Blakey and the Jazz Messengers recorded in 1958. Its title ends with an apostrophe.

ANSWER: "**Moanin'**"

<Fine Arts>

3. Answer the following about art critic Peter Schjeldahl (SHELL-doll), who died in 2022.

This painter’s *The Polish Rider* received praise from Schjeldahl for the wavering mouth of its central figure. This painter also depicted a militia company in *The Night Watch*.

ANSWER: **Rembrandt** van Rijn

Schjeldahl used the phrase “chatty garden furniture” to describe benches made by Jenny Holzer from this material. The *David* in Florence’s Galleria dell'Accademia is carved from this material.

ANSWER: **marble** [prompt on **rock**] [David is by Michelangelo]

Schjeldahl described how a “gravity-challenged Bozo” attempted to perform this action on Edvard Munch’s *The Scream*. Vincenzo Perugina performed this action on the *Mona Lisa* in 1911.

ANSWER: **stealing** it [accept synonyms]

<Fine Arts>

4. Answer the following about a William Faulkner novel.

This stream-of-consciousness Faulkner novel follows the decline of the Compson family as they struggle with the loss of their wealth and reputation in the fictional city of Jefferson.

ANSWER: *The **Sound and the Fury***

In *The Sound and the Fury*, Quentin Compson commits suicide by jumping off a bridge above the Charles River while attending this Ivy League university.

ANSWER: **Harvard** University

Quentin has an obsession with this heirloom, which he inherited from his father. It reminds him of the once-proud standing of the Compson family.

ANSWER: his **watch**

<Literature>

5. Answer the following about physicist Lev Landau.

Lev Landau helped Yakov Zeldovich formulate a set of mechanisms for the formation of NO_x's in this type of reaction. This type of reaction, colloquially called "burning," occurs between an oxygen and a fuel species.

ANSWER: **combustion**

Landau–de Gennes theory uses the Q tensor to model phase transitions to these materials. Nematic and smectic phases exist for these materials, often used in namesake "displays."

ANSWER: **liquid crystals**

Landau theorized Landau poles, which apply in all non-asymptotically free quantum field theories, while studying this earliest type of quantum field theory. Schwinger, Tomonaga, and Feynman won the Nobel in Physics for developing this theory.

ANSWER: **quantum electrodynamics** [or **QED**; reject electrodynamics]

<Science>

6. Answer the following about Jehovah's Witnesses.

Jehovah's Witnesses refuse transfusions due to a belief that the Bible prohibits receiving this bodily fluid.

ANSWER: **blood**

In contrast to most Christians, Jehovah's Witnesses believe that a stake was used rather than this object in one event. This object names a gesture made by touching the forehead, chest, and both shoulders.

ANSWER: the **cross** [or sign of the **cross**; or the **crucifix**]

This illustrated magazine is distributed alongside *Awake!* by Jehovah's Witnesses.

ANSWER: *The **Watchtower***

<Religion>

7. Answer the following about the play *The Frogs*.

The Frogs is this type of play. In Ancient Greece, the three main genres of theater were tragedy, satyr play, and this lighthearted type.

ANSWER: **comedy** [accept Old **Comedy**]

The Frogs is by this playwright. Socrates runs the Thinkery in this author's play *The Clouds*.

ANSWER: **Aristophanes** (Ahris-TOPH-uh-knees)

In *The Frogs*, Dionysus travels to the underworld to retrieve this other playwright. This tragedian wrote about a character who murders her two sons before carrying their bodies away in the chariot of Helios (heel-ee-ohs).

ANSWER: **Euripides** (your-RIP-uh-dees) [The unnamed play is *Medea*]

<Literature>

8. Answer the following about people who believed they were immune to bullets.

Leaders of the Maji Maji ("MAH-jee MAH-jee") rebellion in this present-day country believed they could transform Germany's bullets into water. Julius Nyerere led this country from Dar es Salaam before its capital moved to Dodoma.

ANSWER: **Tanzania** [or United Republic of **Tanzania**]

In this country, Ned Kelly attempted to create a homemade suit of bulletproof armor, although he later died in a shootout at Glenrowan.

ANSWER: **Australia** [or Commonwealth of **Australia**]

A general who fought Charles Taylor in this country's civil war believed his troops would be immune to bullets if they didn't wear clothes. This country later elected Ellen Johnson Sirleaf as its president.

ANSWER: **Liberia** [or Republic of **Liberia**]

<History>

9. Answer the following about the Milesian school of philosophy.

Anaximander (“uh-nax-ee-man-der”) of Miletus posited that the first humans came from a fish in what is often erroneously called an early version of this theory. Modern versions of this theory rely on Darwin’s principles of natural selection.

ANSWER: theory of **evolution**

A broad group of philosophers to which Milesian school philosophers belong is often called pre-[this philosopher]. This thinker compared himself to a gadfly after being charged for corrupting the Athenian youth.

ANSWER: **Socrates**

Thales, the founder of the Milesian school, theorized that the world is all made of water and can be seen as an early precursor of this field of philosophy. This field is concerned with the fundamental nature of the world and takes its name from a work of Aristotle.

ANSWER: **metaphysics**

<Philosophy>

10. Answer the following about right triangles.

If a right triangle has legs with lengths 3 and 4, what is the length of its hypotenuse?

ANSWER: **5**

A right triangle has an acute angle A. If the sine of A equals one half, what is the cosine of A?

ANSWER: square **root 3 over 2** [or **half** square **root 3**]

If the sine of A equals the square root of 2 over 2, what is the tangent of A?

ANSWER: **1**

<Computational Mathematics>

11. Answer the following about the biomolecule lignin.

Lignin is found in the tracheary elements of this plant structure, the counterpart to phloem, that carries water throughout the cell.

ANSWER: **xylem**

Lignin is the 3rd most abundant organic molecule, exceeded only by cellulose and this other biomolecule that is present in the cell walls of fungi.

ANSWER: **chitin** [accept **N-acetylglucosamine**]

Lignin is present in sclerenchyma, a plant tissue that, along with collenchyma and parenchyma, make up this layer of plant tissue.

ANSWER: **ground** tissue

<Science>

12. Answer the following about Star Wars television shows.

This first live-action Star Wars series follows the title bounty hunter as he protects the young force sensitive Grogu, who is often affectionately called “Baby Yoda.”

ANSWER: *The* **Mandalorian**

A 2022 miniseries follows this title character as he attempts to rescue Princess Leia from the grasp of Darth Vader and the Galactic Empire.

ANSWER: **Obi-Wan Kenobi** [accept either underlined portion]

This 2024 series is set hundreds of years before the Skywalker Saga, and follows a Jedi Master of the High Republic’s investigation into a criminal attack.

ANSWER: *The* **Acolyte**

<Pop Culture>

13. Answer the following about US presidential libraries.

Although Bill Clinton was born in Hope, his presidential library is located in this state capital of Arkansas.

ANSWER: **Little Rock**, Arkansas

This US state is home to the presidential libraries of Richard Nixon and Ronald Reagan in the cities of Yorba Linda and Simi Valley, respectively.

ANSWER: **California** [accept **CA**]

The only presidential library in Kansas is named for this president. The complex in Abilene includes a museum built on the childhood home of this president.

ANSWER: Dwight D. **Eisenhower**

<Geography>

14. Answer the following about a 19th century Gothic novel.

Friends and family of the title scientist are killed by a humanlike creature he created in this novel by Mary Shelley.

ANSWER: **Frankenstein**; or, *The Modern Prometheus*

The first human whom Frankenstein's creature has a friendly interaction with is a man with this trait. Except for the Doctor's wife, an entire community gains this trait in a novel by Jose Saramago.

ANSWER: **blindness**

In *Frankenstein*, the monster claims he will see Victor Frankenstein on the night of this event, when he performs his last murder.

ANSWER: Victor Frankenstein's **wedding** [accept equivalents]

<Literature>

15. Answer the following about the "three great unifiers."

Oda Nobunaga was the first of three unifiers of this island country. Oda was forced to commit seppuku in its city of Kyoto.

ANSWER: **Japan** [accept **Nippon**]

This last of the three great unifiers won the Battle of Sekigahara ("SEH-kee-gah-HAH-rah"), shortly before he founded his namesake shogunate ("SHOH-guh-nit"), an isolationist regime that lasted until the Meiji Restoration.

ANSWER: **Tokugawa** Ieyasu [accept **Tokugawa** shogunate; prompt on **Ieyasu**]

This man, Oda Nobunaga's sandal-bearer, was the second of Japan's great unifiers. This general launched the Imjin War.

ANSWER: Toyotomi **Hideyoshi** [prompt on **Toyotomi**]

<History>

16. Answer the following about global warming.

This triatomic greenhouse gas is the most common of those released through human activity. It is the most abundant gas released from burning fossil fuels.

ANSWER: **carbon dioxide**

The most abundant greenhouse gas in the atmosphere is water vapor, which exhibits this type of feedback loop since the presence of water vapor, which introduces heat to the atmosphere, causes further evaporation.

ANSWER: **positive** feedback loop

These greenhouse gasses are used in refrigeration and air conditioning systems for their increased ability to absorb heat from the surrounding environment. They replaced the similar chlorofluorocarbons, or CFCs, due to CFCs damaging the ozone layer.

ANSWER: **hydrofluorocarbons** [accept **HFCs**]

<Science>

17. Answer the following about pieces and positions in chess.

Each player begins with eight of these pieces, generally considered the weakest on the board.

ANSWER: **pawns**

As opposed to a traditional diagonal capture, a pawn may perform this type of capture with a two-word French name if adjacent to an enemy pawn that has just made an initial two-square advance from its home square.

ANSWER: **en passant**

A player may perform this maneuver with their bishop, in which they develop the piece to either the b- or g-file of the second rank from its home square. Its name in Italian means “little flank.”

ANSWER: **fianchetto** (“fee-ahn-KEH-toh”)

<General Knowledge>

18. Answer the following about recent newsworthy events involving state of Ohio.

This former Ohio senator who wrote the memoir *Hillbilly Elegy* is Donald Trump’s current vice president.

ANSWER: J.D. **Vance** [or James David **Vance** or James Donald **Bowman**]

Donald Trump falsely claimed that immigrants from this country were eating pets in Ohio’s city of Springfield.

ANSWER: **Haiti**

This Republican and former car-dealer flipped a Democratic seat in Ohio by beating the incumbent Sherrod Brown in the 2024 election. This senator garnered criticism for saying “women...past 50” shouldn’t care about abortion.

ANSWER: Bernie **Moreno**

<Current Events>

19. Answer the following about plant hormones:

Jasmonates serve this broad function in plants. In animals, this function is divided into “active” and “innate” types and can be accomplished by B and T cells.

ANSWER: **immunity** (accept **defense** or **immune system**)

This class of plant hormones induces fruit formation and apical dominance, unlike gibberellins that instead promote stem growth. It forms a concentration gradient towards the apex as it is transported in a “polar” manner from cell to cell in the plant.

ANSWER: **auxins** (accept **indole-3-acetic acid** or **IAA**)

The hypothesis that explains how auxins affect phototropism is this word followed by “growth.” “Absciscic [this]” inhibits germination in most plants.

ANSWER: **acid**

<Science>

20. Answer the following about U.S. history between 1797 and 1801.

This second president of the United States served as vice president during George Washington’s tenure.

ANSWER: John **Adams**

Following the XYZ Affair, Adams fought an undeclared naval war with this name against France that was ended by the Treaty of Mortefontaine.

ANSWER: **Quasi**-War [or **Quasi**-guerre; prompt on descriptions of an **undeclared** naval **war with France**]

The Federalist Congress passed the Alien and Sedition Acts, which were opposed by these two sets of statements. These two documents, issued in 1798 and 1799, argued the acts were unconstitutional and hinted at “interposition.”

ANSWER: **Kentucky and Virginia Resolutions** [or **Virginia and Kentucky Resolutions**; accept answers of BOTH **Virginia Resolution** and **Kentucky Resolution**]

<History>