THE LONG ISLAND QUIZ BOWL ALLIANCE

Standard Set Sample

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Tossups

1. **The nucleus of this element is the second most common cosmic ray, and it is the heaviest element to not contribute to metallicity. A star rapidly consumes this element in its namesake 'flash,' where three atoms of this element are fused in the (*)** triple-alpha process to form carbon-12. Two hydrogens fuse in the proton-proton chain to make this element. Name this second-most common element in the universe, a noble gas with atomic number 2.
ANSWER: **helium** [or **He**] <Science>

2. **This man's body legendarily "exploded" at his funeral in Rouen after succumbing to a disease fighting against Philip I. This man forced landowners to sign the Oath of Salisbury and his land allotments are recorded in the Domesday Book. In his most famous (*)** triumph, which took place at Senlac Hill, this man defeated Harold II's forces. What Norman monarch won the Battle of Hastings and conquered England in 1066?
ANSWER: **William the Conqueror** [accept **William I**; prompt on William] <History>

3. **In a novel titled for one of these people, the term "grok" is used by Valentine Michael Smith. In a novella titled for one of these people, a large crowd at his execution is hoped for by a man who notes that (*)** "Maman died today." One of these people is "in a Strange Land" in a novel by Robert Heinlein. An unnamed Arab is shot by Meursault in an Albert Camus novella titled for what type of unfamiliar person?
ANSWER: a **stranger** [accept ***Stranger*** *in a Strange Land* or *The* ***Stranger*** or *L'****Etranger***; prompt on alien by asking "What term is used in the title to refer to that character?"] <Literature>

4. **This language's word for "double colon" appears in a common error in the PHP programming language. A revival of this language occurred during a movement named for its word for "education," co-developed by the author of *Phaedon*. A set of texts in this language discovered at the Qumran Caves are named for the (*)** Dead Sea. This language's Mishnaic variety was used in the Talmud. What language has official status in Israel?
ANSWER: **Hebrew** [or **Ivrit**] <General Knowledge>

5. **Zane Lowe interviews artists for this company's music station. CyHi asserts that he would be on God's playlist if He owned one of this company's products in a 2010 song. Kanye West raps in "Saint Pablo" that when he was negotiating with this company, "it was Larry and [him]." Dr. (*)** Dre founded a headphone-manufacturing brand now owned by this company. What company owns Beats and developed iTunes?
ANSWER: **Apple**, Inc. [accept **Apple** Music; prompt on Beats Electronics or Beats by Dre by asking, "What company owns Beats?"] <Pop Culture>

6. **One style of dance from this country features a ceremonial solo debut performance called an *arangetram*. In various styles of dance originating in this country, bells are tied around the ankles of dancers. Dances from this country are often accompanied by instruments like the (*)** *veena* and *tabla*. Name this country home to many classical dances that often evoke Hinduism.
ANSWER: **India** [or **Bharat** or Republic of **India**] <Fine Arts>

7. **This disease is mimicked by infection with EBLV-2. This disease is caused by a lyssavirus which creates inclusions in Purkinje cells called Negri bodies. Jenna Giese survived this disease after being treated using amantadine and ribavirin in the (*)** Milwaukee protocol. Exposure to this disease is counteracted by a namesake immune globulin and repeat vaccination. It is now most often transmitted by bats. What viral disease can result from dog bites?
ANSWER: **rabies** <Science>

8. **During World War II, Great Britain tasked Major Humphrey Quill to arrest German citizens in this nation. This country triumphed three times over Great Britain twenty years later over regarding fishing rights; those conflicts were the (*)** Cod Wars. This country is home to the world's oldest parliament, the Althing. What Nordic country is located in between the Greenland Sea and the Atlantic Ocean and has its capital at Reykjavik?
ANSWER: **Iceland** <History>

9. **This author wrote about the "vapors that weep their burthen to the ground" and that "after many a summer dies a swan" in his dramatic monologue, "Tithonus". A poem by this man states "I hope to see my Pilot face to face". In addition to (*)** "Crossing the Bar", this poet wrote "Half a league, half a league" to begin a poem about a cavalry charge of six hundred during the Crimean War. What Victorian Poet wrote "The Charge of the Light Brigade"?
ANSWER: Alfred, Lord **Tennyson** <Literature>

10. **Pencil and paper ready. Abimelech wants to know his army's number of soldiers, which is equal to 15!/13! ("fifteen factorial over thirteen factorial") distinct units of 2 x (25!/24!) ("two times twenty-five factorial over twenty-four factorial") soldiers each. By understanding that he can cancel like factorial terms from the top and bottom of a fraction, then multiplying the number of units by the number of soldiers, he finds (*)** how many soldiers?
ANSWER: **10,500** soldiers <Computational Math>

11. **An ensemble for this many instruments that arranged "Flight of the Tuba Bee" is named Canadian Brass. This many instruments feature in a wind ensemble for which Carl Nielsen wrote a chamber piece that strangely employs a French horn. A rising sextuplet motif depicting a fish features in a piece for this many instruments based on (*)** "Die Forelle," Franz Schubert's "Trout." Give this number of instruments in an ensemble with a piano and string quartet.
ANSWER: **five** [or **quintet**; accept *Trout* ***Quintet***; accept wind **quintet** or brass **quintet**] <Fine Arts>

12. **One speech advocating for this cause describes "a thin veil to cover up crimes which would disgrace a nation of savages" that reveals "gross injustice and cruelty." This cause was advocated by the Free Soil Party and a speech asking (*)** "What…the Fourth of July" was to a certain group of people. Frederick Douglass advocated for what cause achieved by the Thirteenth Amendment and the Emancipation Proclamation?
ANSWER: **abolition** [accept equivalents like **ending slavery**] <History>

13. **After being mistaken for a deer, this figure is killed by a hunter with a blow dart to the foot. This deity lifted the Govardhan Hill to protect villagers from rains after Indra was angered. This figure was swapped at birth with a (*)** peasant girl to protect him from his uncle Kamsa. During the Kurukshetra War, this deity served as a charioteer for Arjuna. Name this blue-skinned avatar of Vishnu who is often depicted playing the flute.
ANSWER: **Krishna** [prompt on Vishnu before mention] <Mythology>

14. **The uncertainty in position is multiplied by the uncertainty in this quantity in Heisenberg's uncertainty principle. This quantity can be calculated for a photon by dividing Planck's constant by the speed of light. The change in this quantity can be calculated by multiplying (*)** force and time. This quantity is conserved in both inelastic and elastic collisions. What quantity can be calculated by multiplying mass and velocity?
ANSWER: linear **momentum** <Science>

15. **Two characters sneak wildlife into a shed along this river to make rescuing a captive more exciting. During a flood on this river, the protagonist of a novel is told to not look inside a drifting house because his father Pap died in it. The (*)** Grangerfords and the Shepherdsons live near this river. The Duke and the Dauphin accompany the enslaved Jim, who rafts down this river with a novel's protagonist. For 10 points, what river is sailed on by Huckleberry Finn?
ANSWER: **Mississippi** River <Literature>

16. **The Rodrigo de Freitas Lagoon is known as the "heart" of this city. The affluent Lagoa and Leblon neighborhoods are in the South Zone of this city. This city contains the second largest urban forest in the world, Tijuca National Park. This city's (*)** Maracanã Stadium hosted the 2014 Soccer World Cup Finals. Name this South American city known for its *Christ the Redeeme*r statue and being the second-most populated city in Brazil.
ANSWER: **Rio** de Janeiro <Geography>

17. **At one battle, Kitbuqa unsuccessfully led an army predominantly of this ethnicity against Qutuz and the Mamluks. al-Musta'sim was killed by soldiers of this ethnic group during an event which caused the Tigris River to run black. Sarai was the capital of a state formed by these people named for the (*)** color of their tents. The Ilkhanate and Golden Horde were ruled by what people who were united by Genghis Khan?
ANSWER: **Mongols** [or **Mongol**ians] <History>

18. **This country's protest song "Baraye" ("bah-RAH-yeh") was used by members of its Woman, Life, Freedom movement. Protestors raised this country's historic Lion and Sun flag in a period of unrest that began with (*)** shopkeepers going on strike over this country's devaluation of the lira. Violence by the Revolutionary Guards and a nationwide internet shutdown disrupted protests in what Middle Eastern country that is led by Ayatollah Khamenei?
ANSWER: **Iran** [or Islamic Republic of **Iran**] <Current Events>

19. **This molecule has two absorption maxima at 575 and 603 nanometers, called Chappuis bands. When adding across a double bond, this compound forms a Crigee intermediate before cleaving alkenes into carbonyls. The concentration of this molecule, which is responsible for causing (*)** cracking in rubber, is measured in Dobson units. Name this triatomic molecule which is depleted by CFCs and found in a namesake layer of the stratosphere.
ANSWER: **ozone** [or **O3**] <Science>

20. **In this work, a myth of metals corresponding to souls is proposed, with gold being that of the Guardian class. In this work, Thrasymachus ("THRAH-sim-MACK-us") argues that justice is defined as whatever is good for the mighty. The mythical (*)** Ring of Gyges is discussed in this work that also considers the idea of lying to society to maintain harmony, a Noble Lie. In what text does Socrates consider The Allegory of the Cave and argue a philosopher-king should rule?
ANSWER: *The* ***Republic*** <Philosophy>

21. **These four English letters and a homophone of a Chinese desert name an Indian dish with cauliflower, turmeric, and potato. These four letters then an "f" mean "emotionally reserved." A "B" then these four letters spell the name of a sloth bear that teaches Mowgli in (*)** Rudyard Kipling's *The Jungle Book*. These four letters end the name of a British-Goan curry, after "vind". Name these four letters that, between an "s" and an "n," give a word for a bar or tavern in the Wild Wild West.
ANSWER: -**aloo**- [accept **aloo** gobi, **aloo**f, B**aloo**, vind**aloo**, and s**aloo**n] <Vocabulary>

Bonuses

1. Answer these questions about infinite series approaching different values.
1. The series one, plus one over one factorial, plus one over two factorial, and so on, equals this mathematician's namesake constant, which is approximately 2.718.
ANSWER: Leonhard **Euler** [accept **Euler**'s number; prompt on e]
2. The root test and ratio test can be used to find the radius of this property. This property describes series that sum towards a finite limit.
ANSWER: **convergence** [or **convergent** series; accept radius of **convergence**]
3. Srinivasa Ramanujan famously used techniques from analytic continuation to assign a value to the sum of all positive integers, yielding this constant.
ANSWER: **-1/12**
<Science>

2. Answer the following about the poet Robert Frost:
1. In what the *Paris Review* poem called the "most misread poem in America," Frost described two of these paths diverging "in a yellow wood."
ANSWER: **road**s [or "The **Road** Not Taken"]
2. A Frost poem titled for one of these things describes how "good fences make good neighbors."
ANSWER: **wall**s [or "Mending **Wall**"]
3. By using the metaphors of "desire" and "hate," Frost compared two ways people "say the world will end" in this nine-line poem.
ANSWER: "**Fire and Ice**"
<Literature>

3. Answer the following about a certain abolitionist.
1. This abolitionist claimed that he was sent by God to destroy slavery. He led a raid on a federal arsenal at Harper's Ferry, intending to start a mass slave uprising.
ANSWER: John **Brown**
2. John Brown and his sons participated in this event. In this event, violence erupted as people argued over whether or not slavery should be permitted in the namesake state.
ANSWER: **Bleeding Kansas**
3. Brown joined forces with Charles Sumner to carry out this killing during Bleeding Kansas, where five pro-slavery settlers were killed.
ANSWER: **Pottawatomie** Massacre
<History>

4. Answer the following about the intelligence quotient:
1. Lewis Terman, a researcher who worked at this university, helped revise an examination that would be used to calculate a person's I.Q. This university was also the site of an infamous "prison experiment".
ANSWER: **Stanford** University
2. Perhaps the most famous test for measuring I.Q. is named for Stanford University and this French psychologist.
ANSWER: Alfred **Binet**
3. This effect was coined to describe generational increases in population's IQ, thereby leading to occasional recalibration of IQ test scores.
ANSWER: **Flynn** Effect
<Social Science>

5. Answer some questions about the painting *Las Meninas*:
1. This Spanish Baroque painter created *Las Meninas* and also served as court painter to Philip IV.
ANSWER: Diego **Velázquez**
2. *Las Meninas* is housed in this major art museum in Madrid.
ANSWER: Museo del **Prado**
3. Michel Foucault opens this book, an "archaeology of the human sciences," with an extended visual analysis of *Las Meninas*.
ANSWER: *The* ***Order of Things*** [or *Les* ***Mots et les Choses***]
<Fine Arts>

6. Answer the following about weather related to elevation:
1. These topographic landforms are responsible for the movement of air in orographic lift. The loss of moisture as air passes over these landforms creates a rain shadow.
ANSWER: **mountain**s
2. Mountains can produce fog as temperature decreases upslope to fall below this point. At this temperature, the air is saturated with water vapor.
ANSWER: **dew** point
3. This value becomes negative in a thermal inversion, which can trap air pollutants near the surface. This value quantifies the rate at which temperature decreases with altitude.
ANSWER: **lapse** rate
<Science>

7. Answer the following about Big Ten quarterbacks and their mixed experiences in 2025.
1. Mark Gronowski transferred to play quarterback for the Hawkeyes, the flagship university in this cornfield-dense state south of Minnesota.
ANSWER: **Iowa**
2. Preston Stone quarterbacked this university from Evanston, Illinois to a near-upset of Michigan, after which coach David Braun criticized its media's alleged "give it our best" attitude in a fiery post-game press conference.
ANSWER: **Northwestern** University
3. This sophomore quarterback had an 80% completion percentage across his first ten games for Ohio State, in which the Buckeyes were undefeated.
ANSWER: Julian **Sayin**
<Pop Culture>

8. Answer the following about the League of Corinth
1. The league was also known as the Hellenic League, as it was formed among various polities of this civilization like Athens.
ANSWER: **Greece**
2. The league's first hegemon was this Macedonian king, who pacified Greece as the first step of a greater plan to invade Persia inherited by his son Alexander the Great.
ANSWER: **Philip II** of Macedon [or **Philippos II** of Macedon; prompt on Philip or Philippos]
3. This Athenian orator denounced Macedon's king with his *Philipics*. Later, this politician's anti-Macedonian tendencies attracted Alexander's ire and led to his suicide.
ANSWER: **Demosthenes**
<History>

9. Answer the following about a shape that won't stop growing:
1. You have a horizontal line segment of length 3. If it becomes six times bigger, what is its new length?
ANSWER: **18** units
2. The horizontal line of length 18 expands vertically to become a rectangle with the same length and a height of 3. What is the rectangle's area?
ANSWER: **54** square units
3. If two right triangles with the same height as the rectangle and bases of length 4 are fused to the left and right sides of the rectangle to form a trapezoid, what is the trapezoid's perimeter?
ANSWER: **54** units
<Computational Math>

10. Answer the following about South Africa's many capes:
1. The Cape of Good Hope lies at the end of one of these geographic features, which are surrounded on three sides by water.
ANSWER: **peninsula**s
2. Cape Town serves as the legislative capital of South Africa. Name either of the other two capitals of South Africa, neither of which is Johannesburg.
ANSWER: **Pretoria** OR **Bloemfontein**
3. This cape is the southernmost part in Africa and takes its name from the Portuguese for "Cape of needles."
ANSWER: Cape **Agulhas**
<Geography>

11. Answer the following about the poetry of Rabindranath Tagore:
1. Tagore wrote two of these works titled "Amar Sonar Bangla" and "Jana Gana Mana" for Bangladesh and India, respectively. One of these works by Francis Scott Key is titled "The Star-Spangled Banner."
ANSWER: national **anthem**s
2. The Bengali word "Sonar" in "Amar Sonar Bangla" translates to this color in English. This color titles a Tagore poem about a boat as well as a Robert Frost poem that opens "Nature's first green is [this color]."
ANSWER: **gold** [accept "The **Gold**en Boat" or "Nothing **Gold** Can Stay"]
3. In Tagore's poem "On the Seashore," "the great meeting of children" happens at "worlds" described by this adjective. The first poem in *Gitanjali* begins "Thou hast made me [this word], such is thy pleasure."
ANSWER: **endless**
<Literature>

12. Answer the following about Ho Chi Minh:
1. Ho Chi Minh City was renamed from this name, serving as the capital of South Vietnam before it fell in 1975.
ANSWER: **Saigon**
2. This group of communist guerrilla fighters was supported by Ho Chi Minh and fought William Westmoreland during the Tet Offensive.
ANSWER: **Viet Cong**
3. Ho Chi Minh overthrew Bao Dai, who was the last emperor of this dynasty, which ended after the August Rebellion.
ANSWER: **Nguyen** Dynasty
<History>

13. Answer the following about neurons:
1. During depolarization, sodium ion channels bring in sodium from outside the neuron whilst ion channels bring this element out of the neuron. Bananas contain high amounts of this element.
ANSWER: **potassium** [accept **K** or **K+** (K plus)]
2. Neurons transmit information through these sudden and propagated changes in their voltage.
ANSWER: **action potential** [or nerve **impulse**]
3. Neurons' resting membrane potential can be calculated using this triply eponymous equation using the concentrations of chlorine, sodium, and potassium inside and outside the cell.
ANSWER: **Goldman**-Hodgkin-Katz equation [or **GHK** equation]
<Science>

14. Answer the following about classical music played at weddings:
1. A work in this genre named after a wedding was written by Felix Mendelssohn in his incidental music for *A Midsummer Night's Dream.* Military and wind bands play these works to accompany parades.
ANSWER: **march**es
2. When the bride walks down the aisle, *Canon in D*, a piece by this composer, is often played.
ANSWER: Johann **Pachelbel**
3. Richard Wagner composed the "Bridal Chorus" for this opera inspired by the legend of the Knight of the Swan.
ANSWER: ***Lohengrin***
<Fine Arts>

15. Answer the following about types of cheese:
1. Named for an English village in Somerset, this hard orange cheese is a common component of cheeseburgers and Culver's cheese curds.
ANSWER: **cheddar**
2. Originating in sixteenth-century Lombardy, this Italian fresh cheese is a main component of tiramisu.
ANSWER: **mascarpone**
3. The fungus *penicillium roqueforti* is added to create the blue-green marbling of this Italian cheese. This blue cheese is sold in "dolce" and "piccante" varieties.
ANSWER: **gorgonzola**
<General Knowledge>

16. Answer the following about an American agency and its recent work:
1. This agency conducts aeroscience research, but most importantly oversees America's space program.
ANSWER: **NASA** [or **National Aeronautics and Space Administration**; reject "NSA"]
2. In 2026, this NASA mission named for a Greek goddess will send astronauts out of low-earth orbit for the first time since the Apollo mission in 1972. It was preceded by an uncrewed mission of the same name in 2022.
ANSWER: **Artemis II** [prompt on Artemis]
3. This astronomer names an infrared telescope that NASA will launch in 2026. This "Mother of Hubble" was both the first female executive at NASA and its first Chief of Astronomy.
ANSWER: Nancy **Roman** [or Nancy Grace **Roman** Space Telescope]
<Current Events>

17. Answer the following about the novella *Candide*:
1. This French philosopher and author of *Zadig* satirized optimism in his novella *Candide*.
ANSWER: **Voltaire** [or François-Marie **Arouet**]
2. This optimistic professor and proponent of the "best of all possible worlds" who accompanies Candide is a parody of Gottfried Leibniz.
ANSWER: Dr. **Pangloss**
3. The plot of *Candide* largely revolves around Candide's attempts to reunite with and marry this daughter of the Baron of Thunder-ten-Tronckh. Pangloss claims this woman was raped and disemboweled by a Bulgarian soldier.
ANSWER: **Cunégonde**
<Literature>

18. Answer the following about electricity and magnetism:
1. This quantity produces electric fields. The force exerted by this quantity is given by Coulomb's law.
ANSWER: **charge** [prompt on Q]
2. A law named for this physicist implies that magnetic monopoles do not exist. This physicist also names a law that sets the electric flux through a closed surface proportional to the charge enclosed.
ANSWER: Johann Carl Friedrich **Gauss** [accept **Gauss**'s law for magnetism]
3. This doubly eponymous law gives the differential magnetic field created by a differential length of current.
ANSWER: **Biot-Savart** law
<Science>

19. Answer the following about various mythological tricksters:
1. Sun Wukong and Hanuman are both shapeshifters that take the form of this type of primate.
ANSWER: **monkey**s
2. This shapeshifting, fishhook-wielding trickster created the islands of New Zealand and slowed the movement of the Sun.
ANSWER: **Māui**
3. Odysseus likely received his skills in deception from this thieving grandfather of his, who in turn gained his magic from Hermes.
ANSWER: **Autolycus**
<Mythology>

20. Name some European royal houses:
1. This house ruled territories in Austria and Spain. Charles V and Philip II were members of this house.
ANSWER: House of **Hapsburg** [or **Habsburg**]
2. This house was originally called Saxe-Coburg and Gotha but was renamed due to anti-German sentiments. Queen Elizabeth II was from this house that rules Britain.
ANSWER: House of **Windsor**
3. This house gained power in Portugal after Portuguese nobles revolted against the Iberian Union. It also ruled over the Empire of Brazil.
ANSWER: House of **Braganza**
<History>