THE LONG ISLAND QUIZ BOWL ALLIANCE

High School Tossup Set Sample

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1. This faculty's "filter model" proposed by Donald Broadbent explains the cocktail party effect. A reduction in this faculty's capacity has been linked to increased short-form content. What faculty is impaired in a namesake "hyperactivity disorder"?
ANSWER: **attention** [accept **attention** span or selective **attention** or **attention** deficit hyperactivity disorder; prompt on ADHD] <Social Social>

2. This religious time period, which begins the liturgical year in Western Christianity, follows the last Sunday of Trinity. Children are sometimes gifted chocolates from namesake "calendars" during what season prior to Christmas?
ANSWER: **Advent** <Religion>

3. Pencil and paper ready. This is a 30-second calculation question. Given that $f(x) = x^3 + 8x - 4$ ("f of x equals x cubed plus eight x minus four") and $g(x) = (5/4)\ x^2$ ("g of x equals five-fourths times x squared), what is f(g(2)) ("f of g of two") equal to?
ANSWER: **161** <Computational Math>

4. Pencil and paper ready. This is a 30-second calculation question. Given that $f(x) = x^4 - 6x + 3$ ("f of x equals x to the fourth minus six x plus three") and $g(x) = x^2$ ("x squared"), what is the value of f(2) - g(4) ("f of two minus g of four")?
ANSWER: **-9** ("negative nine") <Computational Math>

5. 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>

6. The Cretaceous Period is named for this rock. The Cliffs of Dover take their distinctive color from this rock, which is highly porous and calcite-heavy. Name this soft form of limestone that is found in many classrooms.
ANSWER: **chalk** [prompt on calcite or limestone before each is read; prompt on calcium carbonate] <Science>

7. On this show, God masqueraded as the writer and sometimes-prophet Chuck Shurley. The actors Jared Padalecki ("pad-uh-LECK-ee") and Jensen Ackles starred as Sam and Dean Winchester on what longest-running CW show?
ANSWER: ***Supernatural*** <Pop Culture>

8. Two of these institutions based in Greenwich ("GREN-itch") and Kent will merge to overcome falling revenues from international enrolments. A widespread insolvency crisis is faced by what UK institutions, 24 of which comprise the Russell Group?
ANSWER: **universities** [or **university**; prompt on schools] <Current Events>

9. In a play by this author, Karen Wright asks her fiance, Dr. Joe Cardin, to leave her after Mary Tilford accuses her of having a lesbian affair. Which author wrote the plays *The Children's Hour* and *The Little Foxes*?
ANSWER: Lillian **Hellman** <Literature>

10. The protagonist of this novel likens his lover's smile to that of Narcissus's shortly before that protagonist dies of cholera from spoiled strawberries. Name this novel about Gustav Aschenbach's infatuation with Tadzio, written by Thomas Mann.
ANSWER: ***Death in Venice*** [or ***Der Tod in Venedig***] <Literature>

11. Find the exact solution to the trigonometric problem cos (3pi/4 + pi/6) ("cosine of quantity three pi over four, plus pi over six close quantity").
ANSWER: **(√2 - √6)/4** ("square root two minus square root six, all over four") [or **(-√6 + √2)/4** or **(√2)/4 - (√6)/4** or **- (√6)/4 + (√2)/4**] <Computational Math>

12. This work, which includes a movement depicting a cart drawn by oxen, has a trumpet solo in Maurice Ravel's orchestration of it. The movement "The Great Gate of Kiev" is part of what Modest Mussorgsky suite inspired by paintings?
ANSWER: ***Pictures at an Exhibition*** <Fine Arts>

13. An author from this country who wrote the works *Miguel Street* and *A House for Mr. Biswas* became the second Caribbean winner of the Nobel Prize in Literature in 2001. V.S. Naipaul was born in what Caribbean country?
ANSWER: **Trinidad and Tobago** <Literature>

14. This character is shown to have sapphic desires towards Sally Seton, her long-time friend. Name this main character of an eponymous novel by Virginia Woolf.
ANSWER: **Clarissa** Dalloway [accept Mrs. **Dalloway**] <Literature>

15. This company's ARM-based silicon chip series includes A18 and M4 for its mobile and PC products, respectively. What American technology company created the iOS ("eye-oh-ess") operating systems for the iPhone?
ANSWER: **Apple**, Inc. <Science>

16. The Janjaweed operated in a region of this country while it was led by Omar al-Bashir. Darfur is a region in this country that has more pyramids than Egypt. What country was home to the Nubian civilization and is currently led from Khartoum?
ANSWER: **Sudan** [accept ***Tarikh al-Sudan***] <History>

17. During one contest, this deity's mother harpooned him while he was in the form of a hippopotamus. This deity's eye was ripped out during that contest and represents the moon. This son of Osiris won a contest over his rival, Set. Name this falcon-headed Egyptian god.
ANSWER: **Horus** <Mythology>

18. For a binomial distribution, this quantity equals n times p times quantity one minus p close quantity. For a random variable X, this quantity is the expected value of X squared minus the square of the expected value of X. What measure of spread equals the square of the standard deviation?
ANSWER: **variance** <Science>

19. A man in this novel who is told "I will be with you on your wedding night" attended Ingolstadt University and is a friend of Henry Clerval. The mad scientist Victor and his creation of an artificial man are depicted in what novel by Mary Shelley?
ANSWER: ***Frankenstein****; or, The Modern Prometheus* <Literature>

20. Akdamar Island is located in this country's Lake Van. The Galata Bridge goes across this country's Golden Horn, which is an inlet of the Bosphorus Strait. Name this transcontinental country that contains the city of Istanbul.
ANSWER: Republic of **Türkiye** [or **Turkey**] <Geography>

21. The ghost of Machiavel features in a play by this author that ends after the title character is burned alive in a boiling cauldron. This author, who died in a bar fight and was suspected to be a spy, wrote the poem "The Passionate Shepherd to his Love." What English playwright wrote *The Jew of Malta?*
ANSWER: Christopher **Marlowe** [accept Kit **Marlowe**] <Literature>

22. A spin-off of this show was narrated by Kim Cattrall and starred Hilary Duff. A character on this show who loves laser tag and has the catchphrase "Suit Up!" was played by Neil Patrick Harris and is the womanizer Barney Stinson. On what show does Ted Mosby tell his kids about how he met his wife?
ANSWER: ***How I Met Your Mother*** [or ***HIMYM***] <Pop Culture>

23. This prefix starts a verb meaning "to compel testimony" and the stimuli hidden from active perception, "[this prefix] -liminal hints." What three-letter prefix begins a nine-letter word meaning a type of long sandwich and "under the water"?
ANSWER: **sub** [accept **sub**altern or **sub**space or **sub**poena or **sub**liminal or **sub**marine or "Can the **Sub**altern Speak?" or **Sub**space Emissar or **sub**marine sandwich or **sub**s] <Vocabulary>

24. Tyrosine kinases and G protein coupled receptors detect chemical signals in this organelle. The fluid mosaic model proposed that this organelle is composed of proteins floating in a phospho•lipid bilayer. What flexible organelle surrounds all cells?
ANSWER: cell **membrane**s [or plasma **membrane**s] <Science>

25. After MLK's assassination, this politician spoke on a flatbed truck in Indianapolis. In 1968, this attorney general was assassinated at the Ambassador Hotel by Sirhan Sirhan. What Massachusetts politician was the younger brother of the 35th president?
ANSWER: **R**obert Francis **Kennedy** [or **RFK** or **B**obby **Kennedy**; prompt on Kennedy; reject "John F. Kennedy" or "JFK" or answers that include the suffix "Junior"] <History>

26. This scientist proposed that an object's length would shorten as it approaches the speed of light, which is known as length contraction. Name this creator of special relativity and formulator of the equation "E equals m c squared."
ANSWER: Albert **Einstein** <Science>

27. 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** <Foreign Language>

28. 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*] <Grammar>

29. A type of this substance that contains pH indicators and bile salts to be differential and selective is named for a bacteriologist with the last name MacConkey. What substances are used in petri dishes to grow bacteria?
ANSWER: nutrient **agar** [prompt on nutrient medium or media] <Science>

30. This structure in dicots resembles a star-like shape in the center of the roots. Molecules travel through this tissue against gravity due to the cohesion-tension theory. In vascular plants, what non-living tissue transports water and minerals?
ANSWER: **xylem** <Science>

31. 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>

32. Pencil and paper ready. This is a 20-second calculation question. What is the sum of all six of the positive integer factors of 63?
ANSWER: **104** (The factors are 1, 3, 7, 9, 21, and 63) <Computational Math>

33. A "society" promoting this cause with a ten-letter name was co-founded by Justin Edwards and Lyman Beecher. The hatchet-wielding Carrie Nation supported what policy with a ten-letter name that was enforced under the Volstead Act?
ANSWER: **temperance** [accept American **Temperance** Society; prompt on or prohibition of alcohol] <History>

34. This conflict saw the Europa Hotel become the most bombed hotel in the world. A bomb at the Grand Hotel in Brighton during this conflict almost killed Margaret Thatcher. The Good Friday Agreement ended what long conflict in Northern Ireland?
ANSWER: The **Troubles** <History>

35. This song cites names such as Stacy, Becky, Keisha, Ellie, and Dani in response to the question "Who's calling my phone?" What 2025 Drake song repeatedly states "baby girl / let me see you do your dance, let me see you twirl"?
ANSWER: "**NOKIA**" <Pop Culture>

36. This school's football team benched Austin Simmons for Ferris State transfer Trinidad Chambliss. This university contests the Egg Bowl with a rival based in Starkville. What SEC ("S-E-C") university's teams are nicknamed the Rebels?
ANSWER: **Ole Miss** [or University of **Mississippi**; reject "Mississippi State"] <Pop Culture>

37. 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** <Literature>

38. This author wrote a poem about a drunk man witnessing a witches' sabbath and another that lent its name to the title of a John Steinbeck novel about George and Lennie. Name this Scottish author of "Tam O' Shanter" and "To a Mouse."
ANSWER: Robert **Burns** <Literature>

39. Pencil and paper ready. This is a 30-second calculation question. When drawing cards from a standard deck of 52 cards then replacing them, what is the probability that you'll draw either a heart or a diamond eight times in a row?
ANSWER: **1/256** <Computational Math>

40. Pencil and paper ready. This is a 30-second calculation question. If Hetty randomly selects a ball from a bag of three balls numbered 1 through 3, rolls a six-sided die, and multiplies the two numbers, what is the probability that the result will be even?
ANSWER: **2/3** <Computational Math>

41. 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>

42. This theropod, the first specimen of which was destroyed in World War II, names a group including *Irritator* and *Baryonx*. The Cretaceous of North Africa was home to what large, semi-aquatic, fin-backed theropod dinosaur?
ANSWER: ***Spinosaurus*** [accept ***Spinosaurus*** *aegyptiacus*; accept **Spinosaur**ids] <Science>

43. This mountain, the only Decade Volcano in the continental United States, may damage the cities of Puyallup and Renton if it erupts. What mountain in the Cascade Range is sixty miles from Seattle?
ANSWER: Mount **Rainier** [or **Tahoma**] <Geography>

44. This situation is indicated by a Herfindahl-Hirschman Index of 10,000. Barriers such as high fixed costs may result in the "natural" type of what economic situation, which can be broken using antitrust laws?
ANSWER: **monopoly** [or **monopolies**; accept natural **monopoly**] <Social Science>

45. A poem by this author describes "twenty-eight young men" bathing and declares "I sound my barbaric yawp over the roofs of the world." What American poet used the line "I celebrate myself, and sing myself" to open his poem "Song of Myself," which was collected in *Leaves of Grass*?
ANSWER: Walt **Whitman** <Literature>

46. A natural formation containing this substance is created using a meander and is called "oxbow." This substance is found inside aquifers. What substance that is also found in ponds and rivers has a low concentration of salt?
ANSWER: fresh**water** <Science>

47. This country is home to a thinker whose ideals, such as perseverance of the saints, are present in the TULIP acronym. The Kappel Wars in this country led to the death of Huldrych Zwingli. The doctrine of predestination was posited by John Calvin, a Protestant reformer from what country's city of Geneva?
ANSWER: **Switzerland** [or **Swiss** Confederation or **Schweiz** or **Suisse**] <Religion>

48. Dirichlet's ("dee-ree-KLAYZ") theorem states that infinitely many numbers satisfying this property appear in arithmetic sequences. Goldbach's conjecture states that every even natural number is the sum of two numbers with this property. What term describes a number that is only divisible by one and itself?
ANSWER: **prime** <Science>

49. A celebration resembling the movement of a penguin is performed by this team's player Jaylen Waddle. This team traded for Tyreek Hill from the Chiefs to pair with Tua Tagovailoa. Name this NFL team based in South Florida with the slogan "Fins Up."
ANSWER: **Miami Dolphins** [accept either] <Pop Culture>

50. This author of *Zadig* wrote a novella in which Jacques the Anabaptist drowns near Lisbon and the title character states that "we must cultivate our garden." A philosopher created by this author who believes that they live in the "best of all possible worlds" is named Pangloss. What French author wrote *Candide*?
ANSWER: **Voltaire** [or François-Marie **Arouet**] <Literature>

51. This event, in which half of the participants were referred to only by a number, ended after just six days due to mental breakdowns. Philip Zimbardo made half of the subjects guards and the other half inmates in what psychological experiment partly named for a California university?
ANSWER: **Stanford prison** experiment [prompt on Stanford] <Social Science>

52. 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. What viral disease is now most often transmitted by bats and can also result from dog bites?
ANSWER: **rabies** <Science>

53. The Pisonian (“pih-SOH-nee-un”) conspiracy targeted this ruler. This son of Agrippina (“ah-grih-PEE-nah”) the Younger blamed Christians for a fire that began around the Circus Maximus. What Roman emperor supposedly fiddled during the Great Fire of Rome?
ANSWER: **Nero** <History>

54. In this show’s first episode, the protagonist recruits the Three-Sword-style-using Zoro to be a part of his crew. Name this Japanese manga series in which the revelation of this show’s title treasure begins the Great Pirate Era.
ANSWER: ***One Piece*** <Pop Culture>

55. Two types of this quantity can be converted through inverters and rectifiers. Kirchoff’s junction rule states that the sum of this quantity entering and exiting a junction is equal. What electrical quantity symbolized I (“eye”) is measured in amperes?
ANSWER: electric **current** [accept direct **current** or alternating **current**] <Science>

56. Don Carlos Buell brought reinforcements to this battle where Benjamin Prentiss defended the Hornet’s Nest. The “Bloody Pond” turned red during this battle where P.G.T. Beauregard led the Confederates after Albert Sidney Johnston’s death. Ulysses S. Grant won what 1862 battle in Tennessee?
ANSWER: Battle of **Shiloh** [accept Battle of **Pittsburg Landing**] <History>

57. Enzymes in this organ include lipase and protease, which break down lipids and proteins, respectively. After the esophagus, food enters what main digestive organ of humans?
ANSWER: **stomach** <Science>

58. A character created by this man that dreams of lions on a beach is considered extremely unlucky and admires Joe DiMaggio. This author of “Hills Like White Elephants” wrote a novel in which Santiago struggles to catch a giant marlin. What American author wrote *The Old Man and the Sea*?
ANSWER: Ernest **Hemingway** <Literature>

59. One of this country’s leaders was executed on live TV on Christmas Day in 1989, ending forty-two years of Communist rule. What country’s brutal police force, the Securitate, was founded by Nicolae Ceausescu (“chou-SHES-koo”) in its capital of Bucharest?
ANSWER: **Romania** <History>

60. Random column packing with Raschig rings can increase the efficiency of this process by maximizing surface area. Crude oil is divided into components by the fractional form of what process that separates liquids by a difference in boiling point?
ANSWER: **distillation** [accept word forms, such as **distill**ing; accept specific types, such as fractional **distillation**] <Science>

61. This senator called for regulations by the Federal Judiciary on AI usage after federal judges had errors in their filings. What senator and republican from Iowa is the president pro tempore?
ANSWER: Chuck **Grassley** <Current Events>

62. One play by this writer ends with Gabriel playing his trumpet, attempting to open the gates of heaven. In one play by this writer, the ambitious Cory isn’t allowed to play football because of his pessimistic garbage collector father, Troy Maxson. Name this playwright whose *Pittsburgh cycle* contains the play *Fences.*
ANSWER: August **Wilson** <Literature>

63. A catalyst for this conflict was the incumbent ruler's "White Revolution," which led to an alliance between the Communist and Shi'a Islamist movements. This event against Western involvement overthrew the Shah from the Pahlavi ("PAH-lah-vee") Dynasty. Name this 1979 event that occurred in a country led from Tehran.
ANSWER: **Iranian Revolution** [or **Islamic Revolution**] <History>

64. The "Calder Red" *Flamingo* is located in this city, as is an Anish Kapoor sculpture made of stainless steel that is officially titled *Cloud Gate* but is often referred to as "The Bean." Grant Park is near the Art Institute of what Illinois city?
ANSWER: **Chicago**, Illinois [accept University of **Chicago** or Art Institute of **Chicago**] <Fine Arts>

65. These things can be considered as a bijection of a set onto itself and can be decomposed into a series of transpositions. For a set of n unique elements, the number of these rearrangements is n factorial. Name these rearrangements of a set in which order matters, unlike combinations.
ANSWER: **permutation**s <Science>

66. The title of this novel precedes the phrase "the centre cannot hold" in the poem "The Second Coming." What novel about Okonkwo was written by Chinua Achebe ("CHIN-wah ah-CHAY-bay")?
ANSWER: ***Things Fall Apart*** <Literature>

67. At the end of this movie, the main character joins the Pollen Jocks in support of fair trade. "Ya like jazz?" is a line from what 2007 animated movie in which a character voiced by Jerry Seinfeld named Barry B. Benson sues the human race for exploiting the title insects?
Answer: ***Bee Movie*** <Pop Culture>

68. Beaver Island is the largest island in this lake, whose arms include Green Bay. The Straits of Mackinac ("mack-in-aw") connect this lake with Lake Huron. The city of Chicago is on what second-largest Great Lake, which shares its name with a U.S. state?
ANSWER: Lake **Michigan** <Geography>

69. This word refers metonymically to the *Tennō* via reference to his *takamikura*, or imperial seat. This word, which describes a "Throne" of Japan, has a name from "gold" and "flower." What flowers with a long, consonant-heavy name are often referred to in shorthand as "mums"?
ANSWER: **chrysanthemum**s <Vocabulary>

70. This disease is spread by the spirochete *Treponema pallidum* ("trep-uh-NEE-muh PAL-uh-dum"). Many Black men were intentionally left untreated for what sexually-transmitted disease in the Tuskegee Experiments?
ANSWER: **syphilis** <Science>