

2019 Boston Latin Invitational Scholastic Series (BLISS) I Sample Round

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Tossups

- This hero's parents were exiled after his father accidentally killed his own father-in-law, Electryon. His birth was delayed by the goddess of childbirth Eileithyia because of an oath made by his godly father, Zeus, beginning the revenge of the jealous (*) Hera. Alcmena gave birth to this man and his brother Iphicles and in one story, his foster father Amphitryon released snakes into his crib. For 10 points, name this killer of the Nemean lion.**

Answer: Heracles or Hercules (or Alcaeus or Alcides)
- Protestants argue for the primacy of this item with the phrase *sola scriptura* and have removed parts labelled *apocrypha*. The Council of Trent determined which writings to include in it and the Septuagint was a very early precursor. The (*) Jewish variety of this work only includes its first part. The second part of this book was written in Koine Greek in the 1st century A.D. For 10 points, name this sacred text translated by both Martin Luther and St. Jerome and distributed to hotels around the U.S. by Gideon International.**

Answer: the Bible (anti prompt on New or Old Testament or the Hebrew or Jewish Bible before mention and accept after; accept any specific versions like King James, New American etc.)
- This event was compared to a similar occurrence at St. George's Fields. Samuel Gray, Patrick Carr, and James Caldwell died at this event. A print of this event by Henry Pelham and (*) Paul Revere depicted the first victim as a white man, with a linear arrangement of custom houses in the background. Although the perpetrators were acquitted with the help of John Adams, it resulted in the death of several. For 10 points, name this event which began when a gathered crowd threw snowballs and during which, Crispus Attucks was killed.**

Answer: Boston Massacre
- One graph developed to observe this process is the Franz-Kurie plot. Fermi's theory of this process led to the development of his "golden rule" in conjunction with his postulation of the neutrino. This process occurs in "double", plus, and (*) minus types, with the plus type also being known as positron emission. The minus type is responsible for the decay of carbon-14 into nitrogen-14. This process is governed by the weak force, and thus involves a W^- (read as **W minus**) boson. For 10 points, name this type of decay in which an electron or positron is released along with a neutrino.**

Answer: Beta Decay (accept beta minus decay, beta positive decay, or double beta decay after mention; anti prompt before)
- Much of this play's plot depends upon the arrival of a fleet of ships, without which a character cannot pay his debts. That character uses his loaned money to help his friend court an heiress from Belmont. This heiress disguises herself as a (*) law clerk to save the indebted Antonio. Bassanio, the courter, guesses correctly between a gold, silver, and lead coffin. For 10 points, name this comedy about a Jewish lender named Shylock who sues for a pound of Antonio's flesh.**

Answer: The Merchant of Venice
- This country owned multiple exclaves in what is now western Germany. One man from this country predicted World War I after his resignation. A king from this country invaded Silesia because of the (*) Pragmatic Sanction. Though the coronation of kings in this country occurred in Konigsberg, the capital was Berlin. For 10 points, name this polity once ruled by the Hohenzollern dynasty that unified Germany in 1871 under Otto von Bismarck and Wilhelm II.**

Answer: Kingdom of Prussia or Königreich Preußen (Koo-nig-raik Proy-sen)
- This character's first mention clarifies that he gave himself his name and that the author has compiled his records and added a few pages to record his own recollections of this character. He tries**

to enter the Magic Theater but leaves after seeing the words “For Madmen Only!” This title character later meets a (*) prostitute named Hermine and kills her as she predicted. For 10 points, name this alter ego of Harry Haller, that titles a novel by Hermann Hesse.

Answer: Steppenwolf (accept Harry Haller before mention)

8. **Fernando Perez, a journalist and TV personality on VICELAND, was the first Latino Ivy Leaguer to professionally play this sport. American President Donald Trump was scouted by multiple teams of this sport, but chose real estate instead to make “real money.” One hall of famer in this sports sold suits in the off season. That man was (*) Phil Rizzuto** Another famous player acted in the film *Headin’ Home*. That movie documents, though fictionally, his progression to play for a New York team. For 10 points, name this sport with players such as Mike Trout, Roberto Clemente, and Derek Jeter.

Answer: Baseball

9. **Batik is a method of coloring this material from Indonesia and an early Egyptian variety of this material made from flax was sometimes used as currency. The earliest production of one variety of this material was by the Yangshao (yang-Show) from the Shanxi (Shahn-shee) province. That variety is produced by (*) bombyx mori.** This material is still extensively manufactured by China like the aforementioned silk. For 10 points, name this material that is usually worn.

Answer: Cloth or Textiles (anti prompt on linen or silk before mention)

10. **In the top left of this painting, a bull has both horns above one eye. An ownerless arm grasps a sword in the bottom center. In the upper right of this work, a very thin neck expands into a bald head with an open mouth below an outstretched upside down arm holding a (*) candle.** The candle is illuminated by a light bulb within a large eye. For 10 points, name this Pablo Picasso work, representing the Spanish Civil War bombing of the title city.

Answer: Guernica (Ger-ni-ka)

11. **One event in this series of novels was based on a real life event that was caused by a now extinct species of locust. In the same novel, a family is relieved after Pa returns after being missing for four days in a blizzard. Those events occur in a novel named for Plum Creek, a stream near Walnut Creek, Minnesota. Some novels in this series include These Happy Golden Years, By the Shores of Silver Lake, and (*) Little House in the Big Woods.** For 10 points, name this series depicting the childhood and growth of the author, featuring Almanzo Wilder, baby Carrie, and the author Laura Ingalls Wilder.

Answer: Little House on the Prairie (anti prompt on Farmer Boy, On the Banks of Plum Creek, By the Shores of Silver Lake, The Long Winter, Little Town on the Prairie, These Happy Golden Years, The First Four Years before they are read)

12. **A group of receptors named for this organelle comes in alpha, beta, and gamma varieties. When this organelle occurs in rats, urate oxidase is found in a paracrystalline core in the liver but that does not occur in humans. This organelle occurring in plants houses a version of the tricarboxylic acid cycle, called the (*) glyoxylate cycle.** Photorespiration occurs between a combination of mitochondria, chloroplasts, and this organelle. For 10 points, name this organelle which breaks down long chains of fatty acids, named for its use of hydrogen peroxide.

Answer: Peroxisomes

13. **This non US city’s Crystal Palace hosted the 1851 Great Exhibition in its Hyde Park neighborhood. An office building in this city is named the Gherkin, a reference to its bullet shaped structure. Another oddly shaped building surpassed the One Canada Square as the tallest building in this city as well as in the EU. That building is the (*) Shard.** The Whispering Gallery at St. Paul’s Cathedral in this city was designed by Christopher Wren. For 10 points, what capital city houses Westminster Abbey and its namesake tower, nicknamed Big Ben.

Answer: London

14. **John Boehner, though once opposed to its legalization, joined the executive board of Acreage Holdings, a company that produces it. In January 2018, Jeff Sessions repealed the Cole amendment, discouraging State Attorneys from prosecuting (*) possession of this substance. Question Four legalized this substance in Massachusetts in 2016. For 10 points name this substance often associated with Rastafarianism.**
Answer: Marijuana (ma-Ri-wah-nuh) or Cannabis (consult Urban Dictionary for any slang answers)
15. **This duo's first collaboration was on a Christmas piece titled Thespis. In a much more famous work by this pair, Sir Joseph tries to marry Josephine who loves the sailor Ralph. That work was also called *The Lass that Loved a Sailor*. More unrequited love causes problems in the town of (*) Titipu when Nanki-Poo loves Yum-Yum. That work is the Mikado. For 10 points, name this librettist and composer pair that created such comic operas as the HMS Pinafore and the Pirates of Penzance.**
Answer: W.S. Gilbert and Arthur Sullivan (do not prompt on partial answers but accept misordered answers at any point)
16. **This star lies at a right ascension of 6 hours 45 minutes and 8.9 seconds. In the Vedas, this star is often called the Chieftain's star, and it has significance in the Egyptian calendar with its heliacal rising. In 1862, it was discovered that this star was part of a (*) binary system, creating the A and B versions of the star. This star makes up one of the three vertices of the Winter Triangle, along with Procyon and Betelgeuse (pronounced beetle-juice). For 10 points, name this brightest star of the night sky, also known as Alpha Canis Major, or the Dog Star.**
Answer: Sirius or Sirius A (anti prompt on Sirius B until its mention)
17. **This man was helped by Jehuda Cresques, a Majorcan Jew from Catalonia. His brother, Ferdinand the Holy Prince, died in captivity in Morocco. He helped conquer Ceuta and under him Gil Eanes passed Cape Bojador. This member of the Illustrious Generation funded his activities with money from the (*) Order of Christ. For 10 points, along with building an academy at Cape Sagres for exploration, who helped in the development of maps and caravels for Portugal?**
Answer: Prince Henry the Navigator or (Henrique o Navegador)
18. **This man labelled Newton as the "infidel mathematician". In the 1720s, he travelled to the New World because he thought that Europe was in spiritual decay and tried to found a college in Bermuda. This man attacked "free-thinkers" who he felt opposed Anglicanism in *Alciphron* and served as the Bishop of Cloyne. This surprisingly (*) Irish born philosopher said "esse est percipi aut percipere" and wrote *A Treatise Concerning the Principles of Human Knowledge*. For 10 points, name this author of *Three Dialogues between Hylas and Philonous*.**
Answer: George Berkeley, Bishop of Cloyne
19. **This number is the average of the number of rings in the racemic mixture Arspenamine, also known as Salvarsan. An intermediate in the Wittig reaction consists of a ring with this many atoms. That ring is equivalent to dioxetane with one of the oxygens substituted for a phosphorous. Thorium's most dominant oxidation state is this number. This is the oxidation number of manganese in manganese (*) dioxide. This is the amount of hydrogens in ethylene as well as the amount of hydrogens in ammonium. For 10 points, name the amount of carbons in butane.**
Answer: Four (accept positive four, four plus, or similar; DO NOT ACCEPT negative four, four minus, or similar)
20. **This man helped his grandfather Numitor regain the throne from his granduncle Amulius. His mother was Rhea Silvia, and his father was supposedly Mars. This man was deified after his death as Quirinus. A famous sculpture of him as a child features him and his brother being (*) suckled by a she-wolf. He killed his brother after an augury contest. For ten points, name this man, the first king and founder of Rome, whose brother is Remus.**
Answer: Romulus (accept Remus before deified)

Replacement (read only if necessary):

21. **In this work, a gang of boys gather in a cave to make a blood oath, but the title character worries that the gang would not be able to kill his frequently absent drunkard father if he were to betray the oath. Later in this work, the title character witnesses a production of the Royal Nonesuch, after which the actors pretend to be relatives of the deceased Peter (*) Wilks.** Those actors were nicknamed the “Duke” and “King” and were actually travelling commens. For 10 points, name this book in which the title character leaves home with Jim, a sequel to *The Adventures of Tom Sawyer* by Mark Twain.

Answer: The Adventures of Huckleberry Finn

Bonuses

1. Pencil and paper ready. You will have 10 seconds per bonus. Nick is dressing himself. For 10 points each:

a. If he has 8 pants and 5 shirts, how many possible combinations are there?

Answer: 40 or forty [8×5=40]

b. If he has 10 pairs of socks, what is the probability of any 2 chosen socks not being a matching pair?

Answer: 18/19 (eighteen nineteenths) or 18 out of 19 [(20×19)/(2×1)=190 possible combinations with 10 pairs; 1-(10/190)=18/19]

c. Given that Nick has a headband with the 7 colors of the rainbow, what is the probability that the order of the colors is that of a rainbow?

Answer: 1/360 (one three hundred and sixtieth) or 1 out of 360 [Because the headband is circular, the number of possible orders is (7-1)!=6!: of these only 2 combinations (ROYGBIV and VIBGYOR) work 2/6!=1/360]

2. This country's name comes from Soninke (Soh-noon-kay) word for great warrior, it became an independent nation on March 6, 1957. For 10 points each:

a. Name this country formerly ruled by Kwame Nkrumah from the capital of Accra.

Answer: Republic of Ghana

b. Ghana was previously colonized by this country under the name of Gold Coast.

Answer: Great Britain

c. One of Ghana's primary exports since colonization is the agricultural product.

Answer: cacao or cocoa beans (prompt on cocoa)

3. Answer the following questions about John Milton. For 10 points each:

a. Name his most famous work, split into 12 books like the Aeneid, about the fall of Man.

Answer: Paradise Lost

b. Name this Archangel sent by God in *Paradise Lost* to tell Adam not to be tempted by Satan.

Answer: Raphael

c. Name this capital city of Hell where Satan, Mammon and Beelzebub plan their corruption of Earth.

Answer: Pandemonium

4. For this work, the artist enlisted the help of many artisans from Jingdezhen (jing-de-Jen), the "Porcelain Capital" of the world. For 10 points each:

a. Name this 150 ton work political work displayed in Turbine Hall at the Tate in 2010.

Answer: Sunflower Seeds or Kui Hua Zi (kway-Hwa-zi)

b. Sunflower Seeds was made by this artist of Dropping a Han Dynasty Urn and Han Dynasty Vase painted with Coca-Cola Logo.

Answer: Ai Weiwei (Ay Way-way)

c. Ai Weiwei is an artist from this country where he was arrested in 2011 at an airport.

Answer: China

5. Many different drinks are popular around the world. For 10 points each:

a. France's Bordeaux region and California's Napa Valley are known for this drink.

Answer: Wine

b. Vietnam and Brazil are the largest producers of this drink which originated in either Ethiopia or nearby Yemen.

Answer: Coffee

c. China's Fujian province and India's Munnar region are known for this drink, whose Thai variety is almost exclusively produced from the same brand and has a distinct artificial orange color.

Answer: Tea (accept specific varieties including Iced Tea)

6. This author quarreled with the Marquess of Queensberry in a libel case. For 10 points each:
- Name this Irish author of “The Importance of Being Earnest”.
- Answer: Oscar Wilde
- In this Wilde work, the title character descends into moral turpitude with his new friend Lord Henry.
- Answer: The Picture of Dorian Gray
- The Marquess’s libel case arose from Wilde’s homosexual relationship with this son of the Marquess.
- Answer: Lord Alfred Douglas
7. Answer the following questions about the Vietnam War. For 10 points each:
- This graduate of UC Berkeley and Harvard served in the US Air Force and served as the Secretary of Defense for much of the war.
- Answer: Robert Strange McNamara
- Also known as the USS Maddox incident, this event involved North Vietnamese torpedo boards detected during DESOTO signals intelligence patrol operations.
- Answer: Gulf of Tonkin Incident
- This Christian man persecuted Buddhists as the president of South Vietnam until he was thrown out with the knowledge of the Kennedy administration.
- Answer: Ngo Dinh Diem (Noh Din Dee-yum)
8. This Texas based group’s Youtube Channel has 15 million subscribers. For 10 points each:
- Name this group who partnered with Lindsey Stirling to cover “Papaoutai” and “Radioactive.” They won a Grammy in 2015 for their Daft Punk medley.
- Answer: Pentatonix
- The Pentatonix first gained prominence on this show. Other winners have included Nota and the Vanderbilt Melodores.
- Answer: “The Sing Off”
- Every group on “The Sing Off” is this type of group. Other notable groups of this type include Straight No Chaser and the fictional Barden Bellas.
- Answer: A cappella
9. Circuits appear in everyday life, powering many of the devices we use today. For 10 points each:
- This quantity can be found by dividing voltage by current and is measured in ohms.
- Answer: Resistance
- This law states that the current entering any junction must be equal to the current exiting and is named after a well known German Physicist.
- Answer: Kirchhoff’s first law or Kirchhoff’s junction rule (or Kirchhoff’s point rule or Kirchhoff’s nodal rule)
- Pencil and paper ready. Eli has a parallel circuit with two resistors, one on each path. Ignoring the resistance of the wire, if the resistors are 10 ohms and 15 ohms respectively and the battery is 12 volts, what is the total current coming from the battery? You have 10 seconds.
- Answer: 2 Amp(ere)s (prompt on unitless answer of 2 or 2,000; while shaking your head, accept 2,000 milliamp(ere)s) [$1/10\Omega+1/15\Omega=1/6\Omega$ $12V/6\Omega=2A$]
10. This god once became a white bull and swam across a sea in his amorous pursuits. For 10 points each:
- Name this Greek god whose children include the demigod Heracles.
- Answer: Zeus [Jupiter is not acceptable because it is the Roman name]
- Perseus was a son of Zeus by this woman who conceived while locked in a tower.
- Answer: Danae
- Perseus later accidentally killed this maternal grandfather by throwing a discus.
- Answer: Acrisius

11. Answer the following questions about North Korea and its weapons program. For 10 points each:
- In June 2018, Chairman Kim Jong-un and President Trump met in this Southeast Asian country.
Answer: Republic of Singapore
 - This CIA Director visited Kim in North Korea earlier to plan the meeting.
Answer: Michael (Mike) Richard Pompeo
 - This President of South Korea met with Kim in April to announce the ending of the Korean war before the end of 2018 and possible denuclearization.
Answer: Moon Jae-in
12. At the end of this work, a character rips open his shirt to reveal the mark on his chest shortly before he dies. For 10 points each:
- Name this work in which Arthur Dimmesdale reveals his adulterous relationship with Hester Prynne.
Answer: The Scarlet Letter
 - This author wrote *The Scarlet Letter* after being fired from the Salem Custom House.
Answer: Nathaniel Hawthorne
 - In Hawthorne's *The House of the Seven Gables*, this family is cheated out of their land by Colonel Pyncheon. Years later, a descendant reveals the deed hidden by his forefather.
Answer: Maules
13. The 1908 Nobel Prize was awarded for a remarkable discovery concerning the delivery of drugs. For 10 points each:
- Name these chemical compounds, often used on fabrics in order to give them color and make them more visually appealing.
Answer: Dyes
 - The winner of the 1908 Nobel Prize was inspired after observing dyes to develop a hypothesis, in which a certain drug can target certain tissues or microorganisms but leave others unharmed. Name either the man or the hypothesis.
Answer: Paul Ehrlich or the Magic Bullet hypothesis
 - Paul Ehrlich first developed the drug Trypan Red and was able to cure African Sleeping Sickness in rats. African sleeping sickness is caused by this **genus** of protozoans.
Answer: Trypanosoma (do not accept longer answers)
14. Pastafarians celebrate many holidays similar to those of other religions. For 10 points each:
- The Pastafarian Holiday is celebrated in place of Christmas, Kwanzaa, and this Jewish holiday commemorating the rededication of the Holy Temple of Jerusalem.
Answer: Hanukkah or (C)hanukah (Khan-uh-kah)
 - The Pastafarian Ramendan is the equivalent of the Muslim holy month of Ramadan which ends with this holiday.
Answer: Eid al-Fitr (Eed-ul-Fitir)
 - Pastafarians prefer this phrase which is said during Christmas season in the U.S. and also names a song written by Irving Berlin.
Answer: Happy Holiday(s)
15. Answer the following questions about Mikhail Gorbachev. For 10 points each:
- Name, in order, these policies of "openness" and "restructuring" the economy.
Answer: Glasnost, Perestroika (both answers must be given in this order)
 - Give this nickname of Gorbachev's policy allowing eastern bloc countries to elect their own governments, causing the collapse of multiple communist regimes.
Answer: Sinatra Doctrine
 - Name this first leader of Russia after Gorbachev's resignation and the collapse of the USSR.
Answer: Boris Yeltsin

16. B.F. Skinner was a hugely influential psychologist. For 10 points each:
- Skinner pioneered this type of conditioning where responses are strengthened through reinforcement or punishment.
Answer: Operant Conditioning (or Instrumental Conditioning)
 - Skinner studied at this university where psychology was founded in America by William James.
Answer: Harvard University
 - Skinner invented this namesake device in which a subject interacts with a element to receive reinforcement. This device was instrumental in his research.
Answer: Skinner Box (or Operant Conditioning Chamber)
17. The libretto for this work was written by Emanuel Schikaneder. For 10 points each:
- Name this opera in which Tamino marries Pamina with the help of Papageno.
Answer: The Magic Flute or Die Zauberflote
 - The Magic Flute was composed by this prodigious Austrian composer.
Answer: Wolfgang Amadeus Mozart
 - In another Mozart opera, *Don Giovanni*, this servant keeps track of the titular character's amorous exploits.
Answer: Leporello
18. Jupiter, the biggest planet in the solar system is an interesting place. For 10 points each:
- Jupiter is a gas giant, contrasted with these kinds of giants, which are composed of elements heavier than hydrogen and helium.
Answer: Ice Giants
 - Four moons of Jupiter were named after Galileo. Name any 2 of them.
Answer: Ganymede, Europa, Io, Callisto (If you have to deal with one of those, please remember that the length of the answer given cannot exceed 4)
 - This mechanism occurs in many brown dwarfs and planets that are too small to engage in fusion, causing the surface to cool and the object to shrink.
Answer: Kelvin Helmholtz mechanism
19. Answer the following questions about the Italian independence movement. For 10 points each:
- This man led the expedition of one thousand and conquered Sicily with the Redshirts
Answer: Giuseppe Garibaldi
 - Garibaldi sent the telegram "I obey!" to this king of Sardinia, who was a major figurehead in the unification movement.
Answer: Victor Emmanuel II
 - This man, who led diplomatic efforts of Sardinia-Piedmont and later Italy as Prime Minister, played a major role in the unification of Italy by organizing an alliance with Napoleon III against Austria.
Answer: Camillo Benso, Count of Cavour
20. Answer the following about organic compounds. For 10 points each:
- These functional groups generally consist of carbon bonded to two carbons and double bonded to oxygen.
Answer: Ketones (or Alkanones)
 - This simplest ketone has formula C₃H₆O (read as c-3-h-6-o).
Answer: Acetone (grudgingly accept dimethyl ketone)
 - The presence of phenylketones in urine is the namesake symptom of this disease.
Answer: PKU or Phenylketonuria

Replacement (read only if necessary):

21. Answer the following questions about torque. For 10 points each:

- a. Torque is the rotational analog of this type of quantity. Gravity is one of the four fundamental types.

Answer: Force

- b. Torque has these units. The component units multiply to work in joules.

Answer: Newton-meters (do not accept or prompt on partial answers)

- c. Torque is the moment of inertia multiplied by this rotational quantity.

Answer: Angular Acceleration (do not accept or prompt on acceleration)