

Berus-Lie Academic Spring Tournament (BLAST)

Writers: Anishka Bandara, Anson Berns, Dylan Bowman, Katherine Lei, Michael Li, Steven Liu, Keaton Martin, Leela Mehta-Harwitz, Arjun Nageswaran, Mazin Omer, Hari Parameswaran, Darren Petrosino, Govind Prabhakar, Matthew Shu, Cole Snedeker, Ethan Strombeck, Chris Tong, Sophia Weng, Walter Zhang, Shawn Zhao

Editors: Andrew Wang, Anson Berns, Katherine Lei, Michael Li, Keaton Martin, Hari Parameswaran, Vishwa Shanmugam

Packet 4: You know what they say

Tossups

1. *Description acceptable.* **During a commemoration of this event, a horse with all of its trappings was sacrificed and a ship was pushed so forcefully that flames appeared and the earth trembled. Nanna gave Hermod a linen robe during his attempt to undo this event, a journey that took nine nights. In the aftermath of this event, the mastermind refused to weep while disguised as a giantess, resulting in him being bound with the (*) entrails of his sons and having poison drip on his face. Prior to this event, the victim started having ominous dreams, prompting his mother Frigg to extract an oath from everything in the world not to harm him, except for one she deemed too harmless. For 10 points, name this event that occurs after Loki tricked the blind god Hodr [“hoder”] into throwing mistletoe at his beautiful brother.**

ANSWER: **death of Baldr** [accept descriptions such as Hodr **kill**ing Baldr, accept **funeral of Baldr** until mastermind] <SZ, Mythology> {Beliefs, Mythology}

2. **Yeidckol Plevinsky leads one political party in this country, which is a part of a coalition with the Social Encounter Party, whose name translates to “Together we’ll make history.” In December 2018, this country’s president announced the creation of a commission to investigate the disappearance and possible murder of 43 students in this country. This country’s president previously served as the mayor of its capital city before refusing to accept the 2006 presidential victory of Felipe (*) Calderón. This country’s most recent elections saw that president from the MORENA party succeed a candidate from the PRI. For 10 points, name this country whose current president, Andrés Manuel López Obrador, succeeded Enrique Peña Nieto.**

ANSWER: United States of **Mexico** <GP, Current Events> {Other, Current Events}

3. **During a successful campaign against Vologases IV, this emperor’s forces sacked the Parthian capital of Ctesiphon. One general who served this ruler in that conflict, Gaius Avidus Cassius, later rebelled against him after hearing false rumors of his death. In contrast to his extravagant co-emperor Lucius Verus, this man tried to rule modestly and morally. While fighting the Quadi, this emperor was inspired by (*) Epictetus to write a treatise on Stoic virtues. After being killed in the Marcomannic Wars, this man was succeeded by his son, Commodus. For 10 points, name this last of the Five Good Emperors who wrote about his philosophy in the *Meditations*.**

ANSWER: **Marcus** Aurelius Antoninus Augustus [prompt on the Philosopher] <CS, Ancient/Other History> {History, Ancient/Other History}

4. A standard for this quantity is 35 according to the PSS-78. A procedure for measuring this quantity uses the correlation between TDS and this quantity. A substance with a high value for this quantity is “rejected” from ice. This quantity and (*) temperature are the major components of a global density gradient circulation pattern. A CTD measures conductivity to determine this quantity. Brackish water has an intermediate value for this quantity, which is mostly determined by sodium and chloride solute concentration in seawater. For 10 points, name this quantity that describes how salty a body of water is.

ANSWER: salinity (of the ocean) [or saltiness or chlorinity or brinness; accept conductivity before mentioned, accept word forms] <KL, Earth Science> {Science, Other Science}

5. One character in this play says one of her “ill-qualities” is that she “sayfs her prayers aloud” in a scene where a different character is told to “speak low if you speak love.” One character in this play jokingly suggests he should have bull’s horns put on his head if he ever gets married. Another character in this play curses some criminals to “everlasting redemption” in one of his many malapropisms. That character, who claims he is “as pretty a piece of flesh as any in Messina,” is the constable (*) Dogberry. Borachio has sex with Margaret, whom Claudio believes to be Hero, as part of a plot concocted by this play’s antagonist Don John. For 10 points, name this Shakespeare comedy about the romance between Beatrice and Benedick.

ANSWER: Much Ado About Nothing <AMB, Drama> {Literature, Drama}

6. This composer used the name of a daughter of one of his lovers to title a suite for piano-four-hands that includes movements such as *Berceuse* [“bare-SUZZ”] and “Kitty-valse.” This non-Debussy composer wrote a sicilienne for another suite based on a play by Maurice Maeterlinck, *Pelléas et Mélisande* [“pell-eh-AHS ey may-lee-ZOND”], and used a flute solo over pizzicato strings to begin his (*) Pavane in F-sharp minor. This composer cut out most of the *Dies Irae* sequence from his Requiem Mass, leaving the *Pie Jesu* [“PEE-ay YAY-soo”]. For 10 points, name this French composer of the *Dolly Suite* and a heavily-edited Requiem.

ANSWER: Gabriel Fauré <ML, Auditory Fine Arts> {Fine Arts, Auditory Fine Arts}

7. In this election, a former president announced he would not attend the DNC but would still support home Senator Stuart Symington. Eugene McCarthy made a failed speech in this election that called on listeners to “raise again the cry of the ancient prophet.” The addressee of a speech given during this election states that he never belonged to a group that “did not believe in liberty” while speaking to the (*) Houston Ministerial Association. The first-ever televised debates were held during this election, whose eventual loser was criticized for appearing sweaty and nervous. For 10 points, name this election in which John F. Kennedy defeated Richard Nixon.

ANSWER: Presidential Election of 1960 <AN, American History> {History, American History}

8. In a story by this author, a man in a green velvet armchair realizes that he is the victim of the crime he is reading about. The narrator of a story by this author is attracted by the quietness and “eyes of gold” of the title animals he sees in the *Jardin des Plantes* [“zhar-DON DAY plants”]. The narrator notes that angel spittle is also called the devil’s drool in a story by this author, whose protagonist watches a blonde woman try to (*) seduce a young boy. This author of “Axolotl” detailed Michel’s attempts to discern a crime from a photograph in his story “Blow-Up.” Horacio visits Morelli in the hospital in the “Expendable Chapters” of a novel by this author that can be read in multiple different orders. For 10 points, name this Argentinian author of *Hopscotch*.

ANSWER: Julio Cortázar [The first clue is from “The Continuity of Parks.”] <HP, Other Literature> {Literature, Short Fiction/Other}

9. **One apparatus used to prepare substances for this technique uses a needle that releases substances into a desolvating capillary from which molecules are ejected in a Taylor cone. A highly accurate variant of this technique uses a Penning trap to measure the cyclotron frequency of its analytes, that type performs a Fourier transform on the signals received by a pair of electrodes and is called FTICR ["F-T-I-C-R"]. MALDI ["mall-dee"] and electrospray (*) ionization are "soft" methods of ionizing the analytes of this process, which analyzes molecules by their m/z ratio. For 10 points, name this type of spectrometry that sorts ions based on their ratio of charge to this technique's namesake quantity.**

ANSWER: mass spectrometry [accept MS, accept (electrospray) ionization until "Penning trap," prompt on spectrometry] <DB, Chemistry> {Science, Chemistry}

10. **A glass canopy hangs above a rainbow-colored, seventy-foot mosaic by this artist located in Chicago titled *Four Seasons*. Jean-Baptiste Carpeaux's *The Dance* stands in front of a building that Andre Malraux commissioned this artist to design a modern ceiling for. Musical notes referencing Beethoven's Ninth Symphony feature in this artist's "Peace Window," which commemorates Dag Hjammarskold ["hammer-ski-old"]. This artist of the ceiling of the (*) Paris Opera House depicted himself in a self-portrait with seven fingers. An image of a goat being milked is superimposed on the cheek of another goat in a painting by this artist that also depicts a green-skinned man holding out the "Tree of Life." For 10 points, name this Belarusian artist of *I and the Village*.**

ANSWER: Marc Chagall <KM, Visual Fine Arts> {Fine Arts, Visual Fine Arts}

11. **Eli and Edythe Broad commissioned Zaha Hadid to create a rhomboid steel building for one of these institutions. Plans for a Baghdad opera house were repurposed into the Gammage Auditorium at one of these institutions, which was one of Frank Lloyd Wright's last designs. The architect of a whale-shaped hockey rink built for one of these institutions also designed a windowless cylindrical (*) brick chapel for another one. A so-called "cathedral" at one of these institutions in Pittsburgh is the second-tallest gothic building in the world. For 10 points, name these institutions where one can find Eero Saarinen's Ingalls Rink at Yale.**

ANSWER: universities [accept colleges; prompt on more general answers such as schools; prompt on "art museum" with "what type of institution is it located at?" until "Gammage Auditorium"] <SL, Other Visual Arts> {Fine Arts, Other Fine Arts}

12. **This character is taunted by the message "my reign is not yet over" inscribed in tree bark and in stone. This man breaks a promise he made on Mont Blanc and receives the threat "I shall be with you on your wedding-night." That threat is realized when this man's bride is strangled at their villa on Lake Como. This character is found stranded in ice by the Arctic-bound Captain (*) Robert Walton. While studying chemistry at the University of Ingolstadt ["ENG-ol-stah-t"], this character collects bones and flesh to build a human form more than eight feet tall. For 10 points, name this title doctor of a Mary Shelley novel who brings a monster to life.**

ANSWER: Victor Frankenstein [accept either underlined portion; do not accept or prompt on "Frankenstein's Monster"] <WZ, Long Fiction> {Literature, Long Fiction}

13. **The keys to this location are held by the Bani Shaiba tribe. The only person born inside this location was the son of a man known as its "custodian." This location is covered in a silk cloth known as the *kiswah*. Near this building is a set of enshrined footprints of Abraham, who is thought to be its builder. An object thought to be part of a (*) meteorite is embedded in this building's eastern corner. Niches called *mihrab* point toward this building, which serves as the *qibla*. Pilgrims kiss the Black Stone and walk around this building seven times as part of the *hajj*. For 10 points, name this cubic granite building in the center of the Great Mosque of Mecca, the holiest site in Islam.**

ANSWER: the Kaaba <WZ, Religion> [The "custodian" is Abu Talib, whose son is Ali.] {Beliefs, Religion}

14. The acronym ANITA is used to refer to basal kinds of these organisms, such as the order Nymphaeales and the genus *Amborella*. Genes named “kryptonite,” “clark kent,” and “Superman” are found in one of these organisms commonly used as a model organism. The development of a structure found in these organisms can be modeled using the ABC model. A tissue known as (*) endosperm forms in these organisms as a result of the fusion between two male gametes and one female gametophyte, which is known as double fertilization. For 10 points, name this division of plants which can produce flowers and fruits, unlike gymnosperms. ANSWER: angiosperms [accept monocotyledons or eudicotyledons, prompt on (flowering) plants until the last line] <ARB, Biology> {Science, Biology}

15. One claimant of this position fled across a frozen river to escape the siege of Oxford Castle. Two future holders of this position were guaranteed power by the Third Succession Act. One holder of this position was executed for the alleged plotting of Wyatt’s Rebellion and had only held this position for (*) nine days. One claimant of this position fought Stephen of Blois [“BLUE-ah”] during the Anarchy. Another holder of this position aggressively tried to reverse the English Reformation and married Philip II of Spain. For 10 points, name this royal title held by Lady Jane Grey and Mary Tudor, who had the nickname “Bloody.” ANSWER: Queen regnant of England [accept Empress of England, Lady of the English; prompt on Queen, Empress by asking “of what country?”; prompt on Monarch of England or gender-neutral equivalents; do not prompt on or accept “Queen of (Great) Britain” or equivalents referring to the United Kingdom; do not prompt on or accept “King of England”] <CS, European History> {History, European/British History}

16. This phenomenon is quantized by spin networks in its namesake loop theory. Because it is described using a second-order tensor, this nonrenormalizable [“non-ree-normal-EYES-able”] phenomenon is theorized to be caused by undiscovered particles with a spin of 2. The weakness of this interaction is the subject of the (*) hierarchy problem. It is the only one of the four fundamental forces not described by the Standard Model and is instead described by the Einstein Field Equations. Newton names the classical description of this force as an inverse-square law. For 10 points, name this attractive force described by general relativity which acts between objects with mass, exemplified by an apple falling to the ground. ANSWER: gravity <SL, Physics> {Science, Physics}

17. One territory governed by this country has lost almost all of its native birds due to the invasive brown tree snake. This country controls the disputed Navassa Island, and this country claims the Bajo Nuevo [“BA-ho-new-EH-voh”] and Serranilla [“say-rah-knee-ya”] banks. The coquí is a tree frog native to another territory of this country, which contains this country’s only tropical rainforest, El Yunque. The (*) Chamorro people are the native inhabitants of this country’s Northern Marianas Islands, and this country shares the Virgin Islands with the United Kingdom. This country’s westernmost territory is Guam, while its largest territory has its capital at San Juan. Puerto Rico is a territory of, for 10 points, what country? ANSWER: United States of America [accept either underlined portion; accept U.S.A] <GP, Geography> {Other, Geography}

18. This author used the words “Saboteur,” “Kamikaze man,” and “Babushka” to refer to a wound in a poem opening with the phrase “What a thrill.” In a poem by this author, the speaker flies “at one with the drive / into the red / eye, the cauldron of morning;” that poem describes “Stasis in darkness / Then the substanceless blue.” This poet wrote “like the cat I have nine times to die” in a poem in which she states “I (*) rise with my red hair / And I eat men like air.” In addition to writing that “dying / is an art,” this poet wrote a poem calling her father “a man in black with a Meinkampf look.” For 10 points, name this Confessional poet of “Ariel,” “Lady Lazarus,” and “Daddy.” ANSWER: Sylvia Plath <KL, Non-Epic Poetry> {Literature, Non-Epic Poetry}

19. Prior to this country's independence, it was characterized by a rivalry between its royalist Veraguas ["vayr-ah-gwas"] and patriot Azuero regions. In addition to raiding Portobello in this modern-day country, Henry Morgan was knighted for later invading it and razing its capital. The failed colony of Caledonia was established in this country as part of Scotland's Darien scheme. This country and (*) Colombia made up the Viceroyalty of New Granada, and it was used by the Spanish as a base for the conquest of the Inca to the south. Vasco Núñez de Balboa became the first European to sight the Pacific Ocean after crossing, for 10 points, what Central American country's namesake isthmus?

ANSWER: Republic of **Panama** <CS, World History> {History, World/Commonwealth History}

20. Before giving a speech in this work, a playwright warns that instead of laughing with him, his audience will probably be laughing at him due to his absurdity. The frame story of this work is an unnamed traveller speaking with Apollodorus about the outcomes of this work's three central debates. One character in this work recounts Diotima's perspective that the culmination of (*) love is to witness beauty as itself. In this philosophical work, a myth about two-bodied humans being split in half is recounted by Aristophanes, who, along with characters like Socrates and Alcibiades, attends a banquet where they all give speeches dedicated to Eros. For 10 points, name this Platonic dialogue of seven discussions on the nature of love.

ANSWER: **Symposium** <DB, Philosophy> {Thought, Philosophy}

Bonuses

1. Answer some things about the 2018 World Chess Championship, for 10 points each:

[10] The 2018 World Chess Championship saw this man defend his title against the challenger Fabiano Caruana. This Norwegian first defeated Viswanathan [“vish-wa-nah-thun”] Anand in 2013 to become World Chess Champion, then retained his title against Anand in 2014 and again against Sergey Karjakin in 2016.

ANSWER: Magnus Carlsen

[10] Caruana currently plays for this country. The first official chess champion to play for this country was Wilhelm Steinitz, and Arpad Elo developed his namesake rating system while working as a professor in this country.

ANSWER: United States of America [accept either underlined part, accept USA]

[10] This chess engine was used by sites such as lichess.com and FiveThirtyEight to bring watchers real-time analysis of the games. It won all three seasons of the Top Chess Engine Championship held in 2018.

ANSWER: Stockfish <SZ, Other> {Other, Miscellaneous/Other Academic}

2. Responses to the title question of this poem include “freely, as men strive for right” and “purely, as they turn from praise.” For 10 points each:

[10] Give the common title of this poem, from its author’s *Sonnets from the Portuguese*.

ANSWER: “How do I love thee? Let me count the ways” [accept Sonnet 43]

[10] The *Sonnets from the Portuguese* were written by this English poet. Her husband, Robert, was also a poet.

ANSWER: Elizabeth Barrett Browning

[10] Browning commands "Gather the north flowers to complete the south" in a sonnet titled for this entity, in which she laments that "Fond voices" that used this entity are "drawn and reconciled / Into the music of Heaven's undefined."

ANSWER: her pet-name [accept "Yes, Call Me By My Pet-Name!"; prompt on a name or a nickname with "what is the exact phrase used?"] <KL, Non-Epic Poetry> {Literature, Non-Epic Poetry}

3. Tetrodotoxin, the poison found in pufferfish, blocks channels that transfer this ion. For 10 points each:

[10] Name this ion whose flow into a cell causes depolarization. This cation and potassium are exchanged in an ATP powered pump, and this ion is symbolized Na.

ANSWER: sodium

[10] Voltage clamping with this compound was used to create a high-resistance gap to discover tetrodotoxin’s mechanism of action. It is also the most common compound used in the gradient of density-gradient centrifugation.

ANSWER: sucrose [prompt on table sugar]

[10] This quantity for tetrodotoxin is 334 micrograms per kilogram. This value is the amount of a toxic substance needed to kill half of a test population.

ANSWER: LD₅₀ [“L-D-fifty”] [accept median lethal dose, semilethal dose, LC₅₀, or LCt₅₀] <KL, Biology> {Science, Biology}

4. In this country’s first civil war, the Anyanyas called for the separation of its southern portion. For 10 points each:

[10] Name this African country. One of this country’s presidents, Jaafar Muhammad an-Nimeiry [“an-knee-me-air-ee”], sparked a bloody civil war that lasted 22 years after he imposed Sharia law in this country.

ANSWER: Republic of the Sudan

[10] After succeeding Jaafar Nimeiry, this president and dictator initiated the genocide in Darfur with the help of Janjaweed militias. This leader was overthrown in a military coup in early 2019.

ANSWER: Omar Hassan Ahmad al-Bashir

[10] Nimeiry was a follower of this religion, as supported by his imposition of Sharia law. The Funj Sultanate was an early Sudanese kingdom that converted to this religion, aiding its expansion in Sudan.

ANSWER: Islam <AN, World History> {History, World/Commonwealth History}

5. Hokusai's *Fine Wind, Clear Morning* is commonly referred to as "[this color] *Fuji*" because of the strong *benigara* pigment used in later prints. For 10 points each:

[10] Name this color. Apocryphally, Hokusai chased a chicken across a canvas after dipping its feet in paint of this color to create leaves floating in the Tatsuta River.

ANSWER: **red**

[10] The most famous of Hokusai's *36 Views of Mount Fuji* depicts a "great" one of these things off Kanagawa.

ANSWER: a **wave** [or **tsunami**]

[10] Hokusai's *36 Views of Mount Fuji* inspired this later *ukiyo-e* artist's *The Fifty-three Stations of the Tokaido*. He employed the *bokashi* color gradation technique in his *One Hundred Famous Views of Edo*.

ANSWER: Utagawa **Hiroshige** [or Ando **Hiroshige**] <AMB, Visual Fine Arts> {Fine Arts, Visual Fine Arts}

6. In a novel by this author, Boro asks his father, "How can you continue working for a man who has taken your land?" For 10 points each:

[10] Name this author who wrote about the landowner Jacobo being killed. In another novel by this author, Munira says, "there is no colour called blood" while teaching in Ilmorog.

ANSWER: **Ngugi** wa Thiong'o [accept James **Ngugi**]

[10] Ngugi ["**in-goo-ji**"] wa Thiong'o is an author from this country, where he set historical novels like *Weep Not, Child*; *Petals of Blood*; and *A Grain of Wheat*.

ANSWER: **Kenya**

[10] A Kikuyu-language novel by Ngugi, which is set in Aburiria, is titled after one of these people. Dorothy pursues one of these people in an L. Frank Baum novel titled for him.

ANSWER: **wizard** [accept **Wizard of the Crow** or *The Wizard of Oz*, accept **murogi** or **Murogi wa Kagogo**] <DP, Long Fiction> {Literature, Long Fiction}

7. Bridges named for Sean O'Casey and Samuel Beckett span this river. For 10 points each:

[10] Name this river that flows through Dublin, dividing the city into Northside and Southside, before reaching the Irish Sea. This river rises in the Wicklow Mountains.

ANSWER: River **Liffey**

[10] This bridge is often conflated with the nearby Tower Bridge, both of which cross the River Thames. This bridge is said to be "falling down" in a popular children's nursery rhyme.

ANSWER: **London** Bridge

[10] World War II bombing destroyed two of the seven bridges, which had posed a problem to Leonhard Euler, in this *present-day* city. This city became a Russian exclave after the fall of the Soviet Union.

ANSWER: **Kaliningrad** [accept **Königsberg** ("**KERN**-igs-berg")] <WZ, Geography> {Other, Geography}

8. This ensemble recorded the soundtrack to the Clint Mansell film *Requiem for a Dream*. For 10 points each:

[10] Name this string quartet that is named after a Greek mythological figure. This ensemble imitated the voices of Paul, Rachel, and Rachella in *Different Trains*.

ANSWER: **Kronos** Quartet

[10] The Kronos Quartet played the aforementioned score for this minimalist composer's piece *Different Trains*. This composer included recorded speeches by Brother Walter in his work *It's Gonna Rain*.

ANSWER: Steve **Reich**

[10] The Kronos Quartet collected "Mai Nozipo" and "White Man Sleeps" on an album titled for *Pieces from* [this continent]. Traditional instruments from this continent include the xylophone-like *balafon* and *djembe* ["**gem-bay**"] drum.

ANSWER: **Africa** <HP, Other Fine Arts> {Fine Arts, Other Fine Arts}

9. This city lost the bloody Siege of Negroponte. For 10 points each:

[10] Name this city. The Ottoman empire captured this city's colony of Candia in the 1660s, and Pietro Foscarini was an ambassador from this city to the Sublime Porte.

ANSWER: **Venice**

[10] Prior to the Ottoman Empire, Venice had forced participants in this crusade to sack Constantinople in order to pay back fees used for borrowing Venetian ships. This crusade led to the creation of the Latin Empire.

ANSWER: **Fourth** Crusade

[10] Even before then, Venice became powerful by trading through Constantinople on this trade route. This trade route was created so that Europeans could obtain the namesake textile material from China.

ANSWER: **Silk Road** <HP, European History> {History, European/British History}

10. Answer the following about blue substances, for 10 points each:

[10] Bromothymol blue is a pH indicator that contains three rings of this molecule in its structure. This molecule is aromatic and has formula C_6H_6 ["C-6-H-6"].

ANSWER: **benzene**

[10] This other pH indicator turns blue in basic conditions and red in acidic conditions. It is commonly adsorbed on filter paper before its use.

ANSWER: **litmus** [accept **7-hydroxyphenoxazone**]

[10] A dye lauded as "the first fully synthetic drug used in medicine" turns blue in the presence of oxygen and is named for this group. This group is a CH_2 connected to the rest of the molecule by a double bond.

ANSWER: **methylene** [or **methylene** blue] <KL, Chemistry> {Science, Chemistry}

11. Luis de Camões's ["ka-MOYSH's"] *Lusiads*, which fictionalizes the journey of Vasco de Gama, is divided into ten of these things. For 10 points each:

[10] Name these divisions of long poetry. A long poem titled for these things contains "Pisan" and "Rock-Drill" sections.

ANSWER: **cantos**

[10] This Imagist poet, who spent more than four decades on his *Cantos*, also wrote the comparatively short poem *Hugh Selwyn Mauberley*.

ANSWER: Ezra **Pound**

[10] The last, unfinished canto of this epic poem begins with a comparison of its author to Luther and Galileo before continuing the story of the title character, who had been "Left in a tender Moonlight situation."

ANSWER: **Don Juan** ["dawn-jew-an"] [by Lord Byron] <WZ, Long Fiction> {Literature, Long Fiction}

12. The graph representing possible movements of this puzzle resembles a Sierpiński ["ser-PIN-skee"] triangle. For 10 points each:

[10] Name this puzzle of moving a stack of increasingly large disks one at a time from one rod to another, with the restriction that no larger disk can be put on top of a smaller one.

ANSWER: **Tower of Hanoi** [accept **Tower of Brahma**]

[10] The optimal number of moves to solve a Tower of Hanoi problem with n disks is this number to the n th power minus one. This number is the base of the binary system.

ANSWER: **2**

[10] This mathematician invented the Tower of Hanoi puzzle. He also names an analogue to the Fibonacci numbers that instead begin with 2, 1, and 3, and both sets of numbers belong to his namesake class of sequences.

ANSWER: Édouard **Lucas** ["loo-KAH"] <WZ, Math> {Science, Mathematics}

13. The grandson of Francis Scott Key was imprisoned in Fort McHenry for an editorial criticizing this type of action. For 10 points each:

[10] Name this type of action, which was ruled unconstitutional in *Ex parte Merryman* for violating a certain “writ.” A description is fine.

ANSWER: **suspension** of the writ of **habeas corpus** [accept any answers that include **habeas corpus** and it being **suspended**; prompt on descriptions like being **unlawfully imprisoned**]

[10] This President ignored *Ex parte Merryman* and continued to suspend habeas corpus, citing it as a necessity to ensure the Union’s victory in the Civil War.

ANSWER: Abraham **Lincoln**

[10] One such target of suspension of habeas corpus was Clement Vallandigham, a member of this faction of anti-war Democrats. This faction helped to initiate the Pratt Street Riots in Baltimore.

ANSWER: **Copperheads** [accept **Peace Democrats**] <WZ, American History> {History, American History}

14. Answer the following about composer and humorist Peter Schickele [**SHICK-uh-luh**], for 10 points each:

[10] Schickele's parody-laden works are supposedly by a "forgotten" member of this musical family with the initials PDQ. A more famous member of this musical family wrote the Brandenburg Concertos.

ANSWER: **Bach** [accept PDQ **Bach**; accept Johann Sebastian **Bach**]

[10] Schickele's parody of this overture replaces *La Marseillaise* [**mar-say-EZZ**] with "Pop Goes the Weasel" and uses popping balloons in the place of this piece's most notable instrument.

ANSWER: **1812 Overture**, Op. 49 [accept *The Year 1812 Solemn Overture*; the parody is called *1712 Overture*.]

[10] Schickele's other unholy ventures include combining this instrument's mouthpiece with the body of a trombone to produce loud blasts. A solo scored for this woodwind instrument in the first movement of Tchaikovsky's *Pathétique* Symphony is marked with the dynamic *pppppp* [**“six p’s”**].

ANSWER: **bassoon** <ES, Auditory Fine Arts> {Fine Arts, Auditory Fine Arts}

15. This work was originally titled *Faith Seeking Understanding*. For 10 points each:

[10] Name this work which most famously claimed that since God is the greatest which can be imagined and that things which exist are greater than those which do not, then God must exist.

ANSWER: **Proslogion** [accept **Proslogium** and **Discourse on the Existence of God**]

[10] “Faith seeking understanding” was the motto of this Archbishop of Canterbury and author of the *Proslogion*, in which he outlined the first ontological argument.

ANSWER: St. **Anselm** of Canterbury

[10] This philosopher famously refuted ontological arguments such as Anselm’s by claiming “existence is not a predicate” in his *Critique of Pure Reason*.

ANSWER: Immanuel **Kant** <SL, Philosophy> {Thought, Philosophy}

16. Money can be exchanged for goods and services. For 10 points each:

[10] Because money in cash form can be exchanged so readily, it has this property in which an asset can be quickly bought or sold without sacrificing its value. In contrast, assets like real estate do not have this property.

ANSWER: **liquidity**

[10] Money also has this property, since a unit of it can be replaced with another unit indistinguishably.

ANSWER: **fungibility** [accept word forms]

[10] The ability of your money to be exchanged for goods and services can be diminished by this phenomenon, which can either be thought of as the decrease in the value of money or an increase in prices.

ANSWER: **inflation** <SL, Social Science> {Thought, Social Science}

17. The low-energy limit of this process is called *Thomson* [emphasize!] scattering. For 10 points each:

[10] Name this process, the inelastic scattering of a photon by an electron.

ANSWER: **Compton** scattering [accept **Compton** effect]

[10] Compton scattering is inelastic, meaning that this quantity is not conserved in its collisions. This energy of motion is calculated as one-half $m v^2$.

ANSWER: **kinetic** energy

[10] This doubly-eponymous equation gives the differential cross-section of photons undergoing Compton scattering. It relates the cross-section to the angle of scattering and how much energy the photon loses.

ANSWER: **Klein-Nishina** formula <DB, Physics> {Science, Physics}

18. As Treasurer of Australia, this man oversaw the creation of the Australian Dollar and later ended the pegging of the currency to the British pound. For 10 points each:

[10] Name this Prime Minister who more famously went missing while swimming at Cheviot Beach in 1967.

Ironically, a swimming pool in Melbourne was named in his honor.

ANSWER: Harold **Holt**

[10] Holt was first promoted to a cabinet position under Robert Menzies after three cabinet members and the Chief of the General Staff died in a plane crash near this capital of Australia.

ANSWER: **Canberra**

[10] One of Holt's slogans proclaimed that he was "all the way with" a president of a different country during this conflict. China sent anti-aircraft guns to one side during this conflict to combat Operation Rolling Thunder.

ANSWER: **Vietnam** War [accept **Second Indochina** War or **Resistance** War **Against America**; prompt on **American** War or **Indochina** War] <WZ, World History> {History, World/Commonwealth History}

19. This festival is similar to the Chinese Qixi ["**chi-shi**"] festival and centers on the myth of two lovers being celebrated by the Milky Way. For 10 points each:

[10] Name this Japanese summer festival, in which people write their wishes on small pieces of paper and hang them on bamboo trees.

ANSWER: **Tanabata** festival

[10] The Tanabata festival takes place a month before Obon, which is a day dedicated to these people. In China, food is left out for these people, and they are visited during the Qingming ["**chin-ming**"] Festival.

ANSWER: **ancestors**

[10] On the night before this day, Buddhist temples in Japan ring a bell 108 times. Although Japan no longer celebrates a "lunar" type of this day, China does, with practices including the gifting of money in red envelopes.

ANSWER: **New Year**'s Day <AN, Religion> {Beliefs, Religion}

20. In this short story, a character gets distracted in her lovemaking when she remembers a boy who sang *The Lass of Aughrim* for her. For 10 points each:

[10] Name this short story. At its end, its protagonist realizes that "one by one, they were all becoming shades" before he watches snow fall on a churchyard.

ANSWER: "**The Dead**"

[10] "The Dead" is a story from this collection. In another story from this collection, "Araby," a boy visits the namesake bazaar in an attempt to buy a gift for Mangan's sister.

ANSWER: **Dubliners**

[10] The collection *Dubliners* is by this Irish author, who also wrote extensively about Ireland in *A Portrait of the Artist as a Young Man*.

ANSWER: James **Joyce** [accept James Augustine Aloysius **Joyce**] <ML, Short Fiction/Other Literature> {Literature, Short Fiction/Other}