

Bulldog High School Academic Tournament 2015 (XXIV): It's more than good...it's Grace!

Written by Yale Student Academic Competitions (Isaac Kirk-Davidoff, Laurence Li, Grace Liu, Jacob Mitchell, Frederick Muth, Jacob Reed, Basil Smitham, Jacob Lawrence Wasserman, Nicholas Wawrykow, Mitchell Weldon, Haohang Xu)

Edited by Jacob Reed, with Grace Liu

Packet 13 Tossups

1. **A stone monument of this man's boot now stands on the site of one of his victories, and he successfully used rumors exaggerating the size of his force to break the siege of Fort Stanwix. He had a sniper kill Simon Fraser at Bemis Heights. Forces under this husband of Peggy Shippen joined Richard Montgomery's failed attack on Québec, where this man's leg was shattered. He built an impromptu fleet on Lake Champlain, but (*) Horatio Gates relieved him of command. John André was hanged for involvement with this man's plot for West Point. The hero of the Battle of Saratoga, this is, for 10 points, what American Revolution general who defected to the British?**

ANSWER: Benedict Arnold <JW>

2. **This theory was tested in an experiment in which radioactive iron was placed on a loudspeaker, done by Pound and Rebka. It provided the first explanation for the precession of Mercury's perihelion. A standard textbook on this subject was written by Charles Misner, John Archibald Wheeler, and Kip S. Thorne. One equation in this theory relates the curvature and the stress-energy (*) tensor. One consequence of this theory is that GPS satellites continually need to readjust their clocks. This theory explains gravitational lensing. For 10 points, name this theory that uses the curvature of spacetime to explain gravity, often contrasted with a "special" theory also developed by Einstein.**

ANSWER: general relativity [or GR; accept any answers with both general and relativity in them; prompt on "gravity" or "gravitation"; prompt on just "relativity"; do NOT accept or prompt on "special relativity"] <JR>

3. **This character observes that a man "resembled my father as he slept," and asks "good peers" to think of another character's reaction to an empty "stool" as "but as a thing of custom" that "spoils the pleasure of the time." After fearing that one character's nature is "too full o' the milk of human kindness," this character advises, "Screw your (*) courage to the sticking place." She tells the spirits, "Unsex me here," and claims that she would be willing to dash out a baby's brains, but she later sleepwalks, howling, "Out, out, damned spot" as she tries to wash the blood off her hands. For 10 points, identify woman who plots King Duncan's murder in a Shakespeare play titled for her Scottish husband.**

ANSWER: Lady Macbeth [accept Macbeth's wife; do NOT accept or prompt on just "Macbeth"] <GL>

4. **A king of this city received a curse on his family for abducting Chrysippus, a son of Pelops. While battling before this city, Tydeus defeated Melanippus and ate his brains. A princess from this city burnt to death after asking to see the full glory of Zeus; that mother of Dionysus, Semele, was the daughter of a man who produced a strange crop of fully-armed (*) men by sowing serpent's teeth in the soil of this city. A king of this city, Laius, died at the hands of his own son, who unknowingly killed him on the road before marrying Jocasta, his own mother. For 10 points, name this Boeotian city founded by Cadmus and later ruled by Creon and Oedipus.**

ANSWER: Thebes <FM>

5. **A character with this first name visits the Chillon Chateau with a man, to Mrs. Costello's dismay. Another character with this first name has a daughter named Pammy and states that her lover "looks like the advertisement of a man." A woman with this name dies of Roman fever after a visit to the Colosseum with Giovanelli, devastating (*) Winterbourne. This first name also belongs to a woman whose maiden name is Fay and**

whose voice is “full of money.” That character weeps over a stack of shirts, has a green light at the end of her dock, and runs down Myrtle Wilson. For 10 points, identify this first name of Tom Buchanan’s wife and Jay Gatsby’s lover in *The Great Gatsby*.

ANSWER: Daisy [accept Annie until “daughter named Pammy”; accept any more specific Daisy, like Daisy Miller] <GL>

6. Debussy’s works for this instrument include a *Petit pièce* and a *Première rhapsodie*. It has the solo “Abyss of the Birds” and is the only wind in *Quartet for the End of Time*. One player of this instrument popularized Cole Porter’s “Begin the Beguine”; another led “the Herd” and commissioned Stravinsky’s *Ebony Concerto* for it. Another player of this instrument was featured on the first double album, *The Famous* (*) 1938

Carnegie Hall Jazz Concert. Its soprano and bass varieties are both normally tuned in B-Flat, and this single-reed woodwind was played by “the King of Swing.” For 10 points, name this instrument played by Artie Shaw, Woody Herman, and Benny Goodman.

ANSWER: clarinet <JR>

7. After visiting this place, a man walked to his death after saying “I am just going outside and may be some time.” The plateau around this location was named for Haakon VII. The Nimrod Expedition pioneered a route to this location. An abortive attempt to go here was saved from disaster when lifeboats reached Elephant Island. The *Fram* was last used en route to this place, and the (*) *Endurance* was destroyed en route to it. In 1912, five men died after reaching this location just weeks after the first group to reach it. A research station here is named for Robert Falcon Scott and Roald Amundsen. For 10 points, name this point at 90 degrees of latitude in Antarctica.

ANSWER: geographic South Pole [prompt on “Antarctica” before it’s mentioned; do **NOT** accept or prompt on “Magnetic South Pole”] <LL/JR>

8. One work of this kind presents the narrator’s lifelong obsession with butterflies and his first love with “Colette.” Another work in this genre is titled for a city that, “If you are lucky enough to have lived in [it] as a young man, then wherever you go for the rest of your life, it stays with you.” Another work of this kind by the poet who wrote “On the Pulse of Morning” is named after a poem by Paul Laurence (*) Dunbar. An account of the narrator’s life as a Russian aristocrat before the Great War appears in Vladimir Nabokov’s work in this genre, *Invitation of a Small Guest*. For 10 points, name this genre of Ernest Hemingway’s *A Moveable Feast* and Maya Angelou’s *I Know Why the Caged Bird Sings*.

ANSWER: autobiography [prompt on “memoir”] <FM>

9. Patients with damage to this structure exhibit “intention tremor.” It is very sensitive to alcohol, and tests for damage to it are similar to drunk driving tests. Input to this part of the metencephalon comes from the Inferior Olive via climbing fibers. This region has a regular structure consisting of parallel fibers, tiny granule cells, and gigantic Purkinje cells, which may have a general (*) “error correction” function. Although it only takes up 10% of the volume, it contains about 80% of the brain’s neurons. It sits behind the pons and under the occipital lobe. For 10 points, name this region of the brain important for coordination and motor control, which looks like another little brain behind the cerebrum.

ANSWER: cerebellum <JR>

10. A book in this language includes refutations of “paralogisms,” “antinomies,” and “antithetics” of the title concept. A philosopher in this language claimed that “the I” needs to consider itself to properly be an “I.” Another philosopher in this language argued that space and time do not exist outside of us, but are just how we perceive things. Exponents of “Nature Philosophy” and the “Science of Knowledge” were leaders of this language’s (*) “Idealism.” A book written in this language distinguishes between phenomena and noumena, or “The

Thing in Itself,” and proves that synthetic *a priori* propositions exist. For 10 points, name this language of *Critique of Pure Reason* by Immanuel Kant.

ANSWER: German [or Deutsch] [“Nature Philosophy” is Schelling, “Science of Knowledge” is Fichte] <JR>

11. In this country, Cardinal Mindszenty was imprisoned by Matyas Rakosi. During a revolution in this country, it lost the “Blood in the Water” Olympic Water polo match. A revolution in it began after state forces in this country shot student demonstrators at a radio station. During World War II, it was led by (*) Miklos Horthy. It was called the “happiest barrack” under János Kádár, who used “Goulash Communism.” This country withdrew from the Warsaw Pact under, Imre Nagy, who led a revolution in it in 1956. For 10 points, identify this country, where the Soviet forces crushed a revolution started in Budapest.

ANSWER: Hungary [or Magyarország; or Hungarian People’s Republic; or Magyar Népköztársaság] <MW>

12. One character in this series says “We’ll let ‘em have...a belly full of lead, and a pool of their own blood to drown in,” and is killed by “Guilty Spark.” In its third game, you meet the AI “05-032 Mendicant Bias.” These games were recently redone by 343 Studios. Enemies in these games include shield-carrying “Jackals” and heavily-armored (*) “Hunters.” In the second installment, you play as the Elite “Arbiter” and try to wipe out an infestation of the Flood. The first game in this series is subtitled “Combat Evolved,” while another is subtitled “Reach.” For 10 points, name this series of first-person shooter games developed by Bungie for the Xbox, in which you play as Master Chief.

ANSWER: Halo [accept any answer with Halo in it] <JR>

13. An oxyanion of this element is found in alum. Two compounds of this element form oleum. An oxyacid of this element is often formed with a vanadium-five-oxide catalyst. Analogues of alcohols with it instead of oxygen are called thiols. Two atoms of this element in nearby cysteine molecules form a “bridge.” Its elemental form is a crumbly solid made of (*) eight-membered rings. A diprotic acid containing this element is formed by the contact and lead chamber processes. It is added to rubber in vulcanization. For 10 points, name this yellow element that forms a very poisonous, explosive, and rotten-egg-stinky gas with hydrogen.

ANSWER: sulfur [accept S] <JR>

14. Massive soapstone sculptures of these creatures stood outside the walls of Great Zimbabwe, and one of these creatures is the emblem of modern Zimbabwe. In Piero della Francesca’s *The Baptism of Christ*, one of these animals is almost dead center. St. Gregory is usually depicted with one of these creatures dictating to him. Mary holds a book and wears a red dress and blue cloak, while John the Baptist holds the namesake one of these animals in a (*) Raphael Madonna. A minimalist bronze sculpture of one of these animals was withheld by Customs and subject of a court case over whether it was art or not. For 10 points, name these creatures, one of which was sculpted “in Space” by Constantin Brancusi.

ANSWER: birds [accept Bird in Space; accept any more specific kind of bird, e.g. eagles, doves, or goldfinches] <JR>

15. In December, a journalist writing about this group of people had difficulty leaving McAllen. These people were the subject of a 2014 dispute over the William Wilberforce Act. They were the ultimate cause of recent funding uncertainty in Jeh Johnson’s department. Some of these people benefit from DACA. Raising an objection last December about federal treatment of them, Ted (*) Cruz led the Senate into a rare Sunday session. After a Gang-of-Eight bill primarily about them never passed the House, President Obama issued an executive order protecting 4.3 million of them. Including minors known as DREAMers, these are, for 10 points, what people who improperly entered or reside in the U.S.?

ANSWER: illegal immigrants [or undocumented immigrants; accept equivalents; prompt on “immigrants” or equivalents; if they answer with “DREAMers” or equivalents before mentioned, prompt by saying “they want something more general”] <JW>

16. **One character in this musical decries a place where the hurricanes are blowing and the population’s growing; she is supported by the chorus’ preference for a land where everything’s “free...for a small fee.” A girl in this musical says that she “hardly can believe [she’s] real” while admiring her “so charming it’s alarming” self in a bridal shop. That character participates in the duet (*) “Tonight” after singing “I Feel Pretty,” and loves a boy who declares, “I’ve just met a girl named Maria!”** Jerome Robbins choreographed a finger-snapping dance-off to open this musical about the Jets and the Sharks. For 10 points, name this musical by Leonard Bernstein which retells *Romeo and Juliet* in New York City.

ANSWER: West Side Story <GL>

17. **The replacement theorem shows that every basis of a space named for this word has the same size. Some of these structures are linearly dependent if one of them can be written as a combination of the others. Calculus on [this]-valued functions uses the operators “div” and “curl.” A type of graphics named for this word can be (*) scaled indefinitely, unlike raster graphics. In epidemiology, this is the term for pathogen-carrying organism, such as a mosquito. They can be multiplied by scalars, and the parallelogram law governs their addition.** For 10 points, name these structures which are often depicted on the Cartesian plane as an arrow with magnitude and direction.

ANSWER: vectors <HX>

18. **This leader shared power with Nikolay Podgorniy and Aleksey Kosygin. He led a border war over Zhenbao Island with China. Along with leaders like Harold Wilson and Janos Kadar, this man agreed to recognize territorial integrity of states in the Helsinki Accords. He agreed to (*) SALT II talks with Jimmy Carter. This leader, who presided over an Era of Stagnation, removed Alexander Dubcek from power during the Prague Spring. His politics were denounced by Mikhail Gorbachev. For 10 points, name this General Secretary of the Soviet Union during the ‘70s, who succeeded Nikita Khrushchev.**

ANSWER: Leonid [Ilyich] Brezhnev <LL>

19. **Jews from this modern country traditionally whip each other with scallions during Passover. A religious prophet received a vision from a maid of heaven while in a dungeon in this country. Many members of one faith fled from here to India while carrying a fire. The New Year in this country features the *Haft-Sin* and fire-jumping and is called (*) Nowruz. Bahauallah was from this country, home to a religion that features Ahura Mazda as the divine creator. Shia Islam spread in this country under the Safavids. For 10 points, name this modern-day country home to Zoroastrianism and more recent religious leaders like Ayatollah Khomeini.**

ANSWER: Islamic Republic of Iran [accept Persia] <IKD>

20. **In this play, a character who delivers an ode to an old cupboard plays imaginary games of billiards. A man who repeatedly misquotes Hamlet refuses to propose to Varya in this play, and that merchant’s former employer refuses to build summer villas for rental. In this play, Anya admires an “eternal student” who tutored her brother prior to Grisha’s drowning; that man, Peter (*) Trofimov, ponders some unchanging trees. Before returning to her sick Parisian lover in this play, Madame Ranevskaya sells her home to her former serf, Lopakhin. For 10 points, name this play by Anton Chekhov, which concludes as the title estate feature is chopped down.**

ANSWER: *The* Cherry Orchard [or Vishnevyi sad] <GL>

Tiebreaker

21. In computers, a page table is a map between the [this word] of virtual addresses and the [this word] of physical addresses. Two events are *this*-like if there exists some reference frame in which they are observed to occur at the same time, but not in the same (*) place. In probability, the set of all possibilities is referred to as the sample [this]. The structure of this type named after Minkowski is comprised of four dimensions. Triangles have three right angles in a non-Euclidean structure of this type. For 10 points, name this concept often paired with “time” in mathematical models of the universe.

ANSWER: space <HX>

Packet 13 Bonuses

1. Blazes Boylan has an affair with Leopold Bloom's wife in this novel. For 10 points each:

[10] Identify this novel by James Joyce which is set on June 16, 1904. Episodes in this novel closely parallel events in Homer's *Odyssey*.

ANSWER: Ulysses

[10] In Episode 11 of *Ulysses*, Leopold Bloom listens to Simon Dedalus' rendition of an aria from *Martha* and watches the Ormond Hotel barmaids. That scene corresponds to Odysseus' encounter with *these* figures.

ANSWER: the Sirens

[10] In her poem "Siren Song," this poet posited that each Siren draws in her victims by promising to reveal why she squats on an island in a bird suit beside two other "feathery maniacs." This novelist also wrote *The Blind Assassin*.

ANSWER: Margaret [Eleanor] Atwood <GL>

2. Most of this ruler's military victories were due to Prince Eugene of Savoy. For 10 points each:

[10] Name this Holy Roman Emperor who had a long reign, from 1658 to 1705.

ANSWER: Leopold I, Holy Roman Emperor [prompt for number on just "Leopold"]

[10] Leopold I might be best-known for winning back Hungary from this empire, which was based in modern-day Turkey. This Muslim empire had conducted a siege of Vienna under its Sultan Suleiman the Magnificent.

ANSWER: Ottoman Empire

[10] Leopold's last war was this one. During this war, the Duke of Marlborough led Allied forces to bloody victories like Malplaquet.

ANSWER: War of the Spanish Succession <JR>

3. The largest churches of this type in the US are LifeChurch.tv and Lakewood Church. For 10 points each.

[10] Name these Protestant congregations that have over two *thousand* people attend Sunday services. Saddleback Church and Christ Fellowship are churches of this type.

ANSWER: megachurch

[10] This man who delivered the invocation at Obama's 2009 inauguration, founded the Saddleback Church, one of the largest mega-churches in the country.

ANSWER: Rick Warren [or Richard Duane Warren]

[10] Many of the megachurches in the U.S. are of this denomination, the largest Protestant denomination in the U.S. In 2012 Fred Luter was elected the first black president of this denomination.

ANSWER: Southern Baptist Convention [or SBC; prompt on "Baptist"] <NW>

4. Name some things about the recovery of ancient art, for 10 points each:

[10] This archaeologist, financed by Lord Carnarvon, uncovered many artworks in KV62 in the Valley of the Kings. You probably know KV62 better as the tomb of King Tut.

ANSWER: Howard Carter

[10] Sometimes, all you have to do to find art is dig a little: this sculpture from Ancient Rome was rediscovered in the 1500s in somebody's vineyard. This group shows the title bearded man contorted in agony as he is attacked by snakes.

ANSWER: the Laocoön group [or Laocoön and His Sons; or *Gruppo del* Laocoonte]

[10] Yale's own artifact-thieving Hiram Bingham "rediscovered" all the cool art at this ancient Incan site high in the Andes.

ANSWER: Machu Picchu <JM>

5. The gene for this protein can be added to just about anything, making it easy to tell if a given gene is being expressed. For 10 points each:

[10] Name this glowing protein first studied by Osamu Shimamura.

ANSWER: **green fluorescent protein** [or **GFP**]

[10] Green fluorescent protein is in a “barrel” shape, thanks to *this* protein secondary structure. This structure is contrasted with one where there is a hydrogen bond every four amino acids.

ANSWER: **beta sheets** [prompt on “beta strand”]

[10] Green fluorescent protein was first isolated from one of these stinging, tentacled sea creatures. These Cnidarians [“nye-DAR-ee-uhnz”] go through polyp and medusa stages and come in varieties like “lion’s mane.”

ANSWER: **jellyfish** [or **jellies**] <JR>

6. Both gods and men are victims of lost or damaged organs in Greek mythology. For 10 points each:

[10] Because Prometheus stole fire from the gods, a giant eagle would gnaw this organ out of his chest each day. It grew back each night to be ready for the next day’s feast.

ANSWER: **livers**

[10] When Tereus abducted his wife’s sister Philomela and locked her up, he cut off this part of her to keep her quiet. She had to communicate with her sister Procne by weaving a tapestry instead.

ANSWER: **tongues**

[10] This bronze mechanical giant on Crete kept throwing rocks at the Argonauts, so Poias popped his only vein open by shooting an arrow into his heel.

ANSWER: **Talos** [or **Talon**] <FM>

7. This man’s most famous work features advice on how to get free food, start an underground press and obtain a buffalo from the United States Government. For 10 points each:

[10] Name this author of *Steal this Book*. He engaged in many anti-capitalist stunts with the Yippies, like throwing money at the NYSE and interrupting the Who at Woodstock.

ANSWER: “Abbie” **Hoffman** [or Abbot Howard **Hoffman**]

[10] Abbie Hoffman makes several appearances in “Lord of the Universe,” a documentary about Millennium ’73, a bizarre spiritual gathering held at *this* Houston site. It was the first domed stadium, and the first to have artificial grass, its namesake “turf”.

ANSWER: **Astrodome**

[10] Hoffman was arrested in *this* year as part of the “Chicago Seven,” who were Vietnam War protesters at the Democratic National Convention. This year’s DNC also saw a “police riot.”

ANSWER: **1968** [prompt on “‘68”] <IKD/JR>

8. Answer some questions about reactions, for 10 points each.

[10] This law states that the total enthalpy of a reaction is equal to the sum of the enthalpies of each step.

ANSWER: **Hess**’s law of constant heat summation

[10] You have 10 seconds for this calculation. Suppose you want to make ammonia from hydrogen gas and nitrogen gas. How many of each molecule are there in the balanced equation?

ANSWER: **one** molecule of **nitrogen**, **three** molecules of **hydrogen**, and **two** molecules of **ammonia** [accept answers in any order; accept **N₂** instead of “nitrogen,” **H₂** instead of “hydrogen,” and **NH₃** instead of “ammonia”]

[The balanced equation is $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$ [“N-two plus three H-two yields two N-H-three”].]

[10] Molecule A has two bonds with bond energies of 500 kilojoules per mole. Molecule B has two bonds with bond energies of 600 kilojoules per mole. Calculate the approximate molar enthalpy of the reaction: A yields B.

ANSWER: **negative 200** kilojoules [accept **minus** instead of “negative,” but do **NOT** accept answers that don’t include one of those two words] <JR>

9. This house makes the slightly eccentric line Miu Miu. For 10 points each:

[10] Name this Milan-based fashion house. There is a movie titled for the devil wearing it.

ANSWER: **Prada** S.p.A. [accept *The Devil Wears Prada*]

[10] Prada is a fixture in Milan's one of these biannual events, which are lengthy series of shows in which most houses display their new collections. They are held in New York, London, Milan, and Paris.

ANSWER: **fashion week**

[10] Another staple of Milan fashion week is this Florence-based house, best-known for their shoes and other leather goods. Its namesake founder created wedge shoes and the cage heel.

ANSWER: Salvatore **Ferragamo** S.p.A. <JR>

10. Dinu Lipatti made the definitive recording of this composer's Waltzes. For 10 points each:

[10] Name this Polish-French Romantic piano composer of four ballades, the "Funeral March" sonata, the "Heroic" Polonaise, and études nicknamed "Winter Wind," "Tristesse," and "Revolutionary."

ANSWER: Frédéric [François] **Chopin** [or Fryderyk Franciszek **Chopin**]

[10] Chopin wrote four very fast, virtuosic works in this genre, which inspired an E-flat-minor one by Brahms. The Italian name for this genre means "joke," and it replaced the minuet as the standard third movement of symphonies.

ANSWER: **scherzos** [or **scherzi**]

[10] Chopin's last Impromptu and Polonaise are both titled for also being this other kind of piece. Chopin also wrote a single F-minor piece with this title, which, as the name suggests, is somewhat improvisatory and free-flowing.

ANSWER: **fantasy** [accept ***Fantasy-Impromptu***; accept ***Polonaise-Fantasy***] <JR>

11. Answer some questions about rakes, for 10 points each.

[10] Julian Sorel, the hero of this novel by Stendhal, ostensibly must choose between the army and the Church, but he really spends his time seducing Madame de Rênal, the maid Elsa, and aristocratic ladies like Mathilde de la Mole.

ANSWER: *The **Red and the Black*** [or *Le **Rouge et le Noir***]

[10] In this novel by Pierre Choderlos de Laclos, Viscount Valmont seduces the Presidente de Tourvel by pretending to reform his depraved ways. His plot unravels, thanks to his amoral female rival, the Marquise de Merteuil.

ANSWER: *The **Dangerous Liaisons*** [or *Les **Liaisons Dangereuses***]

[10] An altogether different kind of rake, a gardening implement, belongs to a man who combs the muck instead of taking the celestial crown. That man appears in this religious allegory about Christian's journey by John Bunyan.

ANSWER: *The **Pilgrim's Progress** from This World to That Which is to Come* <GL>

12. These particles undergo flavor oscillation, which fixes the "problem" of there not being as many of these coming from the sun as predicted. For 10 points each:

[10] Name these particles, which, like their name suggests, are tiny and electrically neutral. They are produced by radioactive decay and nuclear reactions.

ANSWER: **neutrinos**

[10] Neutrinos were first theorized by this Austrian physicist. He also proposed the concept of spin, in the process of theorizing that two identical fermions cannot be in the same quantum state at the same time.

ANSWER: Wolfgang [Ernst] **Pauli**

[10] Most neutrino detectors, like Super-K, SNO, and KamLAND, use gigantic ones of these things to detect neutrinos. Specifically, they observe Cherenkov radiation from the neutrinos passing through these things.

ANSWER: huge **tanks** of heavy **water** [accept reasonably close answers involving lots of water in something] <JR>

13. Answer some questions about Roman historians, for 10 points each.

[10] This Augustan author wrote 142 books of history tracing Rome's development from the mythical age of Troy to his lifetime. His vivid account of the Second Punic War against Hannibal still survives.

ANSWER: **Livy** [or Titus **Livius** Patavinus]

[10] Early in his history, Livy recounts the story of this first king of Rome, a son of Mars who killed his twin brother Remus for dishonoring the walls of the rising city.

ANSWER: Romulus

[10] Tacitus wrote two major history books—name the chronologically first one. This book covers the years 14-68, while the other one covers 69-96.

ANSWER: the Annals [or Annales; the other book is the *Histories*] <FM>

14. Mohammad Hatta and Sukarno proclaimed this country's independence two days after the Japanese surrender in World War II. For 10 points each:

[10] Identify this country that fought a four-year struggle for independence against Dutch and British colonial forces. The 1945 Battle of Surabaya, fought in eastern Java, is commemorated as this country's Heroes' Day.

ANSWER: Republic of Indonesia [or Republik Indonesia]

[10] In 1965, a failed military coup was blamed on the PKI party, which held this ideology. Mass killings of those suspected of supporting this ideology followed and led to general Suharto's rise to the presidency in 1967.

ANSWER: Communism [or Communist; accept Marxism or Marxist; accept Leninism or Leninist; accept combinations of Marx and Lenin; do NOT accept answers involving "Socialism" or "Socialism"]

[10] This country was occupied by Indonesia from 1975 until 1999; it became the first new country of the 21st century in 2002. The 1991 Santa Cruz massacre in this country was emblematic of repressive Indonesian rule.

ANSWER: East Timor [or Democratic Republic of Timor-Leste] <MW>

15. The narrator of this novel dates Lena Lingard before he goes to Harvard. For 10 points each:

[10] Identify this novel by Willa Cather, in which Jim Burden recounts his memories of an immigrant girl whose family lived near his grandparents in Black Hawk, Nebraska.

ANSWER: My Ántonia

[10] The Shimerdas, Antonia's family, hail from this historical central European country, which no longer exists. Shakespeare famously wrote about this landlocked country's coast in *The Winter's Tale*.

ANSWER: Bohemia [prompt on the "Czech Republic;" prompt on "Czechoslovakia"]

[10] Cather's Prairie trilogy begins with *My Ántonia* and ends with *The Song of the Lark*, which recounts the opera career of *this* soprano.

ANSWER: Thea Kronberg [accept either underlined part] <GL>

16. He compiled three "word books" to help teachers. For 10 points each:

[10] Name this Columbia psychologist, a proponent of connectionism, who placed cats inside puzzle boxes to determine how they would escape.

ANSWER: Edward [Lee] Thorndike [or Ted Thorndike]

[10] Thorndike promoted an "instrumental" kind of this, where you do it by "doing." The theory that people have "styles" of doing *this* involving watching, *or* hearing, *or* doing has been largely debunked.

ANSWER: learning [accept word forms]

[10] Thorndike was a contemporary of this other American psychologist, who founded behaviorism and conducted the "Little Albert" experiment.

ANSWER: John B. Watson <JM/JR>

17. Alexandria was a major center of learning in the Ancient world. Name some things from it, for 10 points each.

[10] Alexandria was home to a massive one of *these* repositories of knowledge, which was unfortunately burned.

ANSWER: library

[10] This shadowy ancient Greek figure lived in Alexandria some time around 300 BC. He began his *Elements* by defining an entity that "has no part."

ANSWER: Euclid [or Eukleides]

[10] About four hundred years later, this Alexandrian polymath wrote several massive books, including the *Tetrabiblos*, "the" *Geography*, and the astronomical treatise *Almagest*.

ANSWER: Claudius **Ptolemy** [or Klaudios **Ptolemaios**; or Claudius **Ptolemaeus**] <JR>

18. It is the only city in the Americas north of the 33rd parallel to have its historic walls still intact. For 10 points each:

[10] Name this subnational capital situated high up on Cape Diamond, home to Laval University. Lying across the river from Lévis [“LAY-vee”], its old city lies next to the Plains of Abraham.

ANSWER: **Québec** City [or Ville de **Québec**]

[10] Québec City and its surrounding province speak a dialect of this language, which, with English, is one of the two national languages of Canada.

ANSWER: **French** language [or Québécois **French**; or **Français**; or La Langue **Française**; or Le **Français** Québécois]

[10] Visitors to Québec City often stop at a tourist attraction named Montmorency, a large example of this type of geographic entity, beside which North America’s only ice hotel was first located.

ANSWER: **waterfall** [or **falls**; or **chutes**] <JW>

19. He included a magic square in his engraving *Melencolia I*. For 10 points each:

[10] Name this German creator of prints like the *Apocalypse* series and *Knight, Death, and the Devil*.

ANSWER: Albrecht **Dürer**

[10] Dürer made detailed depictions of a piece of turf and a hare, using this kind of painting. In this kind of painting, usually done on paper, pigment is suspended in the namesake, common liquid.

ANSWER: **watercolors**

[10] Dürer also created many self-portraits. Perhaps the most famous is one made when he was twenty-eight, in which he looks a lot like Jesus and wears one of *these* items of clothing.

ANSWER: a **fur**-collared **robe** [accept **Self-Portrait in a Fur-Collared Robe**; accept **coat**, **cloak**, or anything similar for “robe”; accept obvious equivalents clearly specifying **fur**] <JR>

20. “Rock” and “mineral” are not interchangeable terms. For 10 points each:

[10] Name these naturally occurring solids, including feldspars, which are a “four” on the Mohs hardness scale for these substances.

ANSWER: **minerals**

[10] Feldspars are found on the continuous branch of this series, which explains why certain rock-forming minerals appear together while others do not.

ANSWER: **Bowen**’s reaction series

[10] Bowen’s reaction series applies to this class of rock, examples of which include granite and pegmatite. Ones with large mineral crystals are called coarse-grained.

ANSWER: **igneous** <HX>

Tiebreaker

21. Here’s a tasty bonus. For 10 points each:

[10] This character is rescued from a pack of Carib cannibals by a shipwrecked sailor. He suggests eating some dead natives but is stopped by his savior, who converts him to Christianity and takes him on as a servant.

ANSWER: **Friday**

[10] The title character of this Shakespeare play feeds Tamora a pie made of her sons. That Roman general seeks revenge for the rape of his daughter and for the death of his sons, acts mediated by Tamora and Aaron the Moor.

ANSWER: **Titus Andronicus**

[10] This author argued that Irish Catholic babies are a delicious and ready food source in his satirical pamphlet, “A Modest Proposal.” He also wrote *Gulliver’s Travels*.

ANSWER: Jonathan **Swift** <GL>