

Bulldog High School Academic Tournament 2014 (XXIII): Tonight I Can Write The Hardest Lines
Written by Yale Student Academic Competitions
Edited by Matt Jackson, with Ashvin Srivatsa and Jacob Wasserman

Packet 12 Tossups

1. Richard Elman described this thinker's thoughts in one work as "blah blah blah." That work, a transcribed recording of a talk with James Baldwin, is *A Rap of Race*. This person contrasted the passive Arapesh and aggressive Mundugumor peoples of New Guinea in *Sex and Temperament in Three Primitive Societies*. Derek Freeman claimed that this thinker had been duped by the residents of the island of Ta'u. This thinker argued that less restrictive sexual norms led to decreased stress for adolescent females on a Pacific island. For 10 points, identify this female cultural anthropologist who wrote *Coming of Age in Samoa*.

ANSWER: Margaret Mead <MW>

2. In Pearson's extension of Lewis acid-base theory, this word describes acids that have small radii and high oxidation states. One compound that has a "super" version of a property with this name is cubic boron nitride, which is used as an abrasive in grinding tools. Water that has a high concentration of minerals like calcium is said to have a property with this name. One scale for measuring one property of this name gives a value of 7 to quartz, and that scale is named for Mohs. For 10 points, identify this word, which describes solid materials like corundum that are resistant to permanent deformation, such as by scratching.

ANSWER: hard [or word forms; or superhard] <AS>

3. One character in this novel, who misses his wife, asks the other characters to shoot some dying horses. The protagonist of this novel is writing a play about Saul, stabs the printer Gerard Duval, and is taught by Kantorek. In this novel, the hungry bed-wetter Tjaden ["tyaduhn"] farts at the brutal Himmelstoss. The protagonist of this novel gets Kemmerich's boots after Müller dies. In this novel, the protagonist carries Katczinsky, who dies of a splinter wound in his arms. For 10 points, name this novel in which Paul Bäumer dies in a trench of World War I, written by Erich Maria Remarque.

ANSWER: All Quiet On the Western Front [or Im Westen nichts Neues] <JR>

4. He's not Rodin, but this artist depicted three angels holding their hands inwards on a straw roof in a painting he signed in Greek, which also shows a hovering circle of olive-holding angels. This man included orange groves in two large paintings a decade and a half prior to his *Mystic Nativity*. This painter showed Chloris running away from Zephyr in a canvas where the three Graces dance, and made another canvas where a Hora brings a blanket towards the center for a nude figure who covers her pelvis with her red hair. For 10 points, name this Florentine Renaissance painter of *Primavera* and *The Birth of Venus*.

ANSWER: Alessandro Botticelli [or Sandro Botticelli; or Alessandro di Mariano di Vanni Filipepi] <MJ>

5. A Christian king of this ethnicity accidentally minted coins praising Allah, since he saw Arabic script as pretty squiggles. Hengist and Horsa were legendary settlers of this group, whose lower classes included the serf-like churl. These people were protected by forts called *burhs* during the Heptarchy. These losers of the battle of Maldon made a treaty with Guthrum, separating their land from the Viking-governed Danelaw during the tenure of Alfred the Great, who led many of these people in Wessex. For 10 points, name these peoples who, alongside the Jutes, invaded post-Roman Britain and ruled there until the Norman conquest.

ANSWER: Anglo-Saxons [accept Angles or Saxons alone; prompt on "English" or "British"] <MJ>

6. One opera by this composer uses an offstage wordless chorus as the title character waits for another character through the night. That opera by this composer uses the beginning of "The Star-Spangled Banner" to represent one character. The title character of another of his operas is a singer who describes how she lived for art and love in the aria "Vissi d'arte." At the end of that opera, the orchestra quotes "E lucevan le stelle," one of Cavaradossi's arias. In another of his operas, the duet "O soave fanciulla" is sung by Rodolfo and Mimi, the latter of whom dies of tuberculosis. For 10 points, name this Italian opera composer of *Tosca*, *Madama Butterfly*, and *La Bohème*.

ANSWER: Giacomo Antonio Domenico Michele Secondo Maria Puccini <KK>

7. At the end of this phase, proteins like ATM and ATR check for DNA damage, and the concentration of a complex called maturation-promoting factor increases. Progress through this phase is governed by relative concentrations of CDKs and cyclins. During this phase, in which the nuclear membrane remains intact, a cell may enter the quiescent G0 phase at the restriction point. This phase contains two gap phases separated by a synthesis phase, during which DNA is replicated. For 10 points, name this phase of the cell cycle in which a cell spends its time when not performing mitosis.

ANSWER: interphase [accept G1 phase or S phase or G2 phase until "two gap phases" is read] <AS>

8. This country's early railways include the spiral tunnels of the Gotthard line, and its Glacier Express railroad has a terminus at St. Moritz. This home of the vineyard terraces at Lavaux ("luh-VOE") is home to a castle where Lord Byron's poem "The Prisoner of Chillon" is set. This country hosts the yearly World Economic Forum at Davos. This country includes about eighty thousand speakers of Romansh, its fourth official language. For 10 points, name this landlocked European country home to Lake Lucerne, whose Alps include the north face of the Matterhorn.

ANSWER: Switzerland [or Swiss Confederation; or Schweiz; or Suisse; or Svizzera; or Svizra] <MJ>

9. These weapons were held within containers called *atlAtl* among the Aztecs. These weapons were used by a majority of the attackers of John Chard's garrison at the battle of Rorke's Drift, and allowed their wielders to capture rifles from Lord Chelmsford's defeated army at Isandlwana. A small type of them called the *iklwa* was held alongside a cowhide shield, and supplemented a larger type called the *assegai* among the Zulu. The ancient Chinese *qiang* was a weapon of this type with a red tassel tied under the blade. For 10 points, name this weapon largely obsoleted by the bayonet, which consists largely of a wooden pole.

ANSWER: spears [or polearms; or javelins; accept iklwa before mentioned; accept assegai before mentioned; grudgingly accept darts] <MJ>

10. A character in this play reveals an affair with the lines "God help me, I lusted, and there is a promise in such sweat," and later yells "I have given you my soul; leave me my name!" when asked to sign a document. Thomas Putnam argues over money and land deeds in the play, whose key props include a doll with a needle in it. In this play, a man asks for rocks to be piled on him by exclaiming "More weight!" Girls are seen with the slave Tituba in the woods prior to this play, in which Giles Corey dies and John Proctor is led to the gallows. For 10 points, name this allegory for Joe McCarthy's anti-Communist scares, an Arthur Miller play about the Salem witch trials.

ANSWER: *The* Crucible <LL>

11. To prevent these places from being reshaped, tetrapods can be deployed. *Ammophila* grass has historically been used to stabilize certain fluvial structures in these places. This habitat is characterized by vertical zonation, and is where most limpets are found. Mandelbrot introduced the study of fractals in a paper about the length of one of these places. The movement of sediment at an angle relative to these places is called littoral drift, causes swash, and gives rise to spits and barrier islands, which serve as natural breakwaters. Beneath the high-water mark, these places may contain tide pools. For 10 points, name these sometimes-sandy locations where land meets sea.

ANSWER: coastlines [or seashores; or shorelines; or coastal zones; accept beaches; accept littoral zones before "littoral" is read; accept intertidal zones before "tide" is read and prompt afterwards] <AS>

12. This god crashed the chariot of the arrogant king Harald Wartooth to kill him after helping Harald win a battle. This god made Baugi drill a hole in a mountainside, then slid through in the form of a snake to enter Suttung's lair. This god feeds scraps to Geri and Freki, two hounds, and also owns an animal conceived as walls were being built around Asgard. This father of Vidarr and rider of the eight-legged horse Sleipnir hung himself from Yggdrasil on a spear for nine days to learn the runes. This eventual victim of Fenrir gave up one eye to increase his renowned wisdom. For 10 points, name this ruler of Asgard, the chief of the Norse gods.

ANSWER: **Odin** [or **Wotan**] <MJ>

13. This country defended a star-shaped castle at Elvas during the Restoration War, under its fourth king with a name translated as John. This country executed the Távora family at the behest of the Marquis of Pombal. The royal family of the Kingdom of Kongo adopted the names of this country's royal family. This kingdom developed the lateen-rigged sails on a ship called the caravel and built a research center at Sagres. A 1755 earthquake wrecked the capital of this kingdom, which was once ruled by the Aviz dynasty of Prince Henry the Navigator. For 10 points, name this kingdom which broke from Galicia during the Reconquista and once owned Brazil.

ANSWER: Kingdom of **Portugal** <MJ>

14. This novel coined the word "freelance." It's not *The Fall of the House of Usher*, but a character in this novel struggles out of a coffin during his funeral; that character, Aethelstane, pledges himself to the "Black Sluggard." Another character in this novel hopes to fight on the behalf of an accused witch but is instead told to champion her accusers. That knight fights "the Disinherited One" before the Templars. Isaac of York gives money to the title character, who defends the Jewish Rebecca from Brian de Bois-Guilbert. For 10 points, name this Walter Scott novel in which Cedric the Saxon's son marries Lady Rowena with the help of Richard the Lionheart.

ANSWER: **Ivanhoe** <GL>

15. One prayer on this holiday contains the words "Ki vanu vacharta v'otanu kidashta mikol ha-amim." A stew called hamin is often prepared before this holiday, the subject of the imperative Hebrew words "shamor" and "zachor" in a song likening it to a bride. This holiday's namesake "goys" help people uphold 39 injunctions called *melakhot*, and it concludes when a braided candle is dipped in wine at the Havdalah ceremony. A braided, eggy bread called *challah* is traditionally eaten after saying Kiddush and lighting candles on this holiday's evening dinner. For 10 points, name this holiday begun on Friday evenings, a weekday on which Jews rest.

ANSWER: **Shabbat** [or **Shabbos**; or the **Sabbath**; prompt on "Friday night"; prompt on "Saturday"] <MJ/JR>

16. The fact that the operator for this and position do not commute, called the canonical commutation relation, underlies much of the weirdness of quantum mechanics. This quantity is proportional to wavenumber. A term containing this variable must be added to Einstein's " E equals mc squared" equivalence to make it exactly correct. Planck's constant divided by this quantity equals a particle's de Broglie wavelength. The square of this quantity divided by twice an object's mass equals kinetic energy. Force is the time derivative of this quantity, and a change in this quantity is called an impulse. For 10 points, name this kinematic quantity equal to mass times velocity.

ANSWER: linear **momentum** [or translational **momentum**] <AS>

17. In a 2014 film, this character brags "First try!" after hurling several projectiles at a red light to turn it green. This figure wrote the words "black hole...curtains drawn" for "Untitled Self-Portrait," a song in which he growls a list starting with "Darkness...no parents". Will Arnett voiced this man, who drives his girlfriend Wyldstyle ("wild style") and Emmett up a rainbow to Cloud Cuckoo Land to meet the Master Builders. In live-action films, he uses a vision-inducing blue flower in Tibet and flies off with a weaponized fusion reactor after Talia al-Ghul's death. For 10 points, name this character in *The Lego Movie*, the rival of Bane in Christopher Nolan's *The Dark Knight Rises*.

ANSWER: **Batman** [accept either underlined name of **Bruce Wayne**; accept "LEGO **Batman**"] <MJ>

18. Compositions in this genre sometimes feature a "breakstrain" section, also called a "dogfight," which typically pits groups of instruments against each other in statement-response fashion. Audiences in Vienna traditionally clap as a piece in this genre named for Radetzky is performed. The final repeat of the trio of one piece in this genre contains a famous solo for piccolo. A composer best known for writing these is the namesake of an instrument similar to a tuba, and that man wrote ones titled "The Washington Post," and "Stars and Stripes Forever." For 10 points, name this type of musical composition often scored for military bands, and of which John Philip Sousa was the "king."

ANSWER: marches <KK>

19. This author compared his fallen love to a faraway flower run over by a plow. In another poem, he threatens a rival with three hundred more lines of verse to demand the return of his handkerchief. This man directed a "new, charming, polished" book of poems to Cornelius Nepos, and the wedding of Thetis and Peleus takes up the 64th and longest of his 116 surviving poems, or *carmina*. This man mourned the death of his lover's pet sparrow, arrived at his brother's funeral across many harsh seas, and wrote a couplet starting "I hate and I love." For 10 points, name this author of "Ave atque vale" and lover of Lesbia, an often-obscene poet from the late Roman Republic.

ANSWER: Gaius Valerius Catullus <FM>

20. This technology, whose unrealized use on the Alaskan coast was called Operation Plowshare, was produced early on at Hanford, Washington. David Greenglass may have lied about the development of this technology, which was also the subject of Klaus Fuchs's espionage trial. Despite helping create them, Leó Szilárd tried to discourage the use of these objects. The quote "I am become Death, the destroyer of worlds" was used to describe this technology's Trinity Test by its Los Alamos-based lead designer, Robert Oppenheimer. The Rosenbergs sent the Soviets details of, for 10 points, what products of the Manhattan Project, superweapons first used on Hiroshima?

ANSWER: atomic bombs [or nuclear bombs; or nuclear weapons; or A-bombs; or nukes; accept equivalents; do NOT accept or prompt on "hydrogen bombs"] <JW>

21. Electromagnetic metamaterials with a negative value for this property have been constructed, which may see use in optically imaging things that are smaller than the diffraction limit. One is subtracted from this quantity in the Lensmaker's equation. When this quantity is polarization-dependent, as in calcite, a "double" type of this phenomenon may occur, called birefringence. This quantity measures how much slower light becomes in a medium. At an interface, Snell's law relates the angles of incidence to these quantities. For 10 points, name this dimensionless property of a medium that measures how much a ray of light is bent when it enters that medium.

ANSWER: index of refraction [or refractive index] <AS>

Bonuses

1. Near the beginning of this novel, a budding playwright named Briony whips pine needles in frustration. For 10 points each:

[10] Name this novel in which Briony misinterprets an encounter between her sister, Cecilia, and the housekeeper's son. Years later, Briony realizes that her mistaken accusation allows Paul Marshall to marry Lola despite raping her.

ANSWER: Atonement

[10] In *Atonement*, the housekeeper's son Robbie fights in this war, in which he waits for evacuation from Dunkirk, after getting out of prison. Elie Wiesel's *Night* depicts a death camp during this war.

ANSWER: World War II [or the Second World War; or WWII]

[10] *Atonement*, like 2005's *On Chesil Beach*, is a novel by this contemporary British author.

ANSWER: Ian McEwan <GL>

2. This team's emblem is a lightning bolt, and Dan Fouts led its Air Coryell offense in the 80s. For 10 points each:

[10] Name this NFL team that plays at Qualcomm Stadium in southern California.

ANSWER: San Diego Chargers [or San Diego Chargers]

[10] The Chargers use this defensive scheme. In it, the nose tackle cements the defensive line along with two defensive ends. One-gap and two-gap varieties of this scheme exist.

ANSWER: 3-4 Defense

[10] This garment was worn by Chargers quarterback Phillip Rivers, after winning the 2014 wildcard round against the Bengals. This official neckwear of Arizona features a piece of cord with decorated tips and an ornamental centerpiece.

ANSWER: Bolo tie [or Bola; or shoestring tie] <LL>

3. These materials typically have a narrow band gap. For 10 points each:

[10] Name these materials that are intermediate in conductivity between conductors and insulators.

ANSWER: semiconductors

[10] In p-type semiconductors, these things are the majority charge carriers. Rather than being a physical particle, this thing is the lack of a particle where one would otherwise be.

ANSWER: electron holes

[10] To produce p-type semiconductors, dopants from this group of the periodic table are often used, since they have one less valence electron than silicon.

ANSWER: boron group [or group 13; or group IIIA ("3A"); or group IIIB ("3B")] <AS>

4. Answer some questions about some of America's most prominent men in the year 1800, for 10 points each.

[10] This Virginian agrarian won the Presidency in 1800 by some electoral shenanigans that provoked the Twelfth Amendment. He lived in Monticello.

ANSWER: Thomas Jefferson

[10] A South Carolinian of this name was John Adams' running mate that year. A man of this surname signed a treaty about the Mississippi river with Spain, and another was at the XYZ affair with Gerry and Marshall.

ANSWER: Pinckney [accept Charles Cotesworth Pinckney or Thomas Pinckney]

[10] This man was governor of Virginia in 1800 when he had the rebel slave Gabriel Prosser hanged. This man later helped bring about the Louisiana Purchase and served alongside Daniel Tompkins.

ANSWER: James Monroe <MJ>

5. Resorts in this state include Telluride, which hosts a program for gifted students each summer, and Aspen Mountain. For 10 points each:

[10] Name this Rocky Mountain state where Pike's Peak inspired the composition of "America the Beautiful." Its capital is exactly a mile above sea level.

ANSWER: State of Colorado

[10] This national park in southwestern Colorado is home to the Balcony House and Cliff Palace, built by Anasazi natives in the rock face.

ANSWER: Mesa Verde National Park

[10] These objects name a National Monument in the far northwest of Colorado near Green Canyon. E.D. Cope and Othniel Marsh raced to discover these objects out west, and many exist near Alberta's Horseshoe Canyon.

ANSWER: dinosaurs [or dinosaur bones; or dinosaur fossils; or dinosaur skeletons; or Dinosaur National Reserve; prompt on "fossils," "bones," or "skeletons"] <MJ>

6. This empire's founding is commemorated by griots, oral poets who recall Sumanguru's defeat by reciting the *Epic of Sundiata*. For 10 points each:

[10] Name this western African empire, centered at Niani, which prospered through the trade of gold and salt and had a legislative body known as the Gbara.

ANSWER: Mali Empire [or Malinese Empire; or Manding Empire; or Manden Kurufaba]

[10] The gold-giving habits of this powerful Mali ruler caused economic collapse in Cairo during his pilgrimage to Mecca in 1324. This father of Maghan was a devout Muslim.

ANSWER: Mansa Musa I

[10] This other city was the center of the Songhai empire, which gradually overtook Mali as the dominant power in West Africa. Askia Muhammad's tomb is here.

ANSWER: Gao [or Kawkaw] <MW>

7. This man was struck blind while traveling to Damascus. For 10 points each:

[10] Name this Christian apostle who wrote to the Romans and many other early Christian communities in several epistles found in the New Testament.

ANSWER: Saint Paul of Tarsus [or Saul of Tarsus]

[10] In this epistle, Paul writes that we see "through a glass darkly," claims "love is patient, love is kind," tells women to stay silent in church, and let us know that he has put away childish things.

ANSWER: First Epistle to the Corinthians [or Corinthians 1]

[10] This Greek word for unconditional, non-sexual care is usually translated as "love" in the "Love is patient, love is kind" passage. C.S. Lewis ranked this emotion above eros, storge, and philia.

ANSWER: agape <MJ>

8. This poem is composed in its namesake 14-line stanzas, and its characters include Olga Larina and Zaretsky, a second who seems to have no idea how to conduct a duel. For 10 points each:

[10] Name this poem whose title character, a St. Petersburg socialite, falls in love with Tatyana and later kills the poet Vladimir Lensky in the aforementioned duel.

ANSWER: Eugene Onegin [accept Yevgeniy for Eugene]

[10] *Eugene Onegin* is by this part-black Russian poet, who wrote about a ruler during the Time of Troubles in *Boris Godunov*.

ANSWER: Aleksandr Sergeyevich Pushkin

[10] In this Pushkin poem, a different man named Evgenii is chased through the streets by an animate statue. Its title statue is also a key motif in Andrei Bely's modernist tangle of a novel, *Petersburg*.

ANSWER: "The Bronze Horseman: A Petersburg Tale" [or "Mednyi Vsadnik"] <SJW/MJ>

9. Much modern work in this field is done in the subfields of model theory and proof theory. For 10 points each:

[10] Name this field, which employs deductive reasoning and syllogisms. A "fuzzy" form of it deals in approximate reasoning about truth.

ANSWER: **logic**

[10] Fuzzy logic rejects this principle of classical logic, which states that given any proposition, either the proposition is true or its negation is true.

ANSWER: law of the **excluded middle** [or principle of the **excluded middle**; or law of the **excluded third**; or principle of the **excluded third**]

[10] In systems with the law of the excluded middle, these constructs can be eliminated. For a proposition P, "not not P" is a construct of this type that is equivalent to P.

ANSWER: **double negative** [or word forms] <HX>

10. Charles-Marie Widor developed a genre of symphonies played by this instrument alone. For 10 points each:

[10] César Franck wrote a *Grande Pièce Symphonique* among many other works for this enormous keyboard instrument usually found in churches, which produces sound by blowing air through pipes.

ANSWER: pipe **organ**

[10] This other French composer's works for organ and orchestra include *Cypress and Laurel* and his third symphony, often called his *Organ Symphony*.

ANSWER: Charles-Camille **Saint-Saëns**

[10] Many French organ symphonies, like Widor's fifth, conclude with a loud, flashy movement of this type. J.S. Bach's most famous organ work pairs a D minor one of these with a fugue.

ANSWER: **toccatas** <JR>

11. Answer these questions about the revolt of the Ciompi, whose egalitarian demands rocked Florence in 1381, for 10 points each.

[10] The Ciompi worked with this raw material, which was exported in medieval times from Burgundy, Spain, and England. This raw material was used in the primary industry of medieval Flanders.

ANSWER: **wool** [prompt on "fiber"]

[10] In Florence, these trade associations opposed the Ciompi as a threat to their power. These good-producing institutions ranked members as apprentices, journeymen, or masters.

ANSWER: **guilds**

[10] Years after Salvestro di Medici helped lead the Ciompi, the Medicis entered this industry at Giovanni di Medici's behest. Other families who did this include the Fuggers of Augsburg and the Rothschilds of London.

ANSWER: **banking** [or **finance**; or **accounting**] <MJ>

12. In one book by this author, an unnamed magistrate has several dreams of children playing in the snow. For 10 points each:

[10] Name this reclusive author of *Waiting for the Barbarians*, who also wrote about David Lurie's struggles after an affair with a student named Melanie in *Disgrace*.

ANSWER: John Maxwell "J.M." **Coetzee**

[10] Coetzee grew up in this country, which is also home to the authors of *Cry, the Beloved Country*, Alan Paton, and *July's People*, Nadine Gordimer.

ANSWER: Republic of **South Africa**

[10] In this other Coetzee novel, the title character wastes away in a prison camp after being captured while hiding on a farm in Prince Albert.

ANSWER: **Life and Times of Michael K** <NW>

13. These intermolecular forces exist between all molecules, bar none. For 10 points each:

[10] Name these weak intermolecular forces that arise from instantaneous dipoles inducing other dipoles, even in nonpolar molecules.

ANSWER: **London** dispersion forces [or London **dispersion** forces; prompt on "van der Waals forces"]

[10] Which of the stable halogens - that is, not including astatine - experiences the strongest London dispersion forces?

ANSWER: **iodine**

[10] Iodine experiences the strongest London dispersion forces because it is the largest, and hence has the highest value for this property, which determines how strong a dipole is induced by a given electric field.

ANSWER: electric **polarizability** [do not prompt on or accept "polarization"] <AS>

14. In the foreground of this painting, a woman in dark clothes with a red scarf puts her hand on the right shoulder of a woman wearing a blue and pink striped dress. For 10 points each:

[10] Name this Impressionist painting of a bunch of Parisian people dancing outside near a row of street lights in Montmartre.

ANSWER: *Bal du **moulin de la Galette*** [or *Dance at the **moulin de la Galette***]

[10] This French impressionist created the *Bal du moulin de la Galette* and showed a yellow and white striped awning in *Luncheon of the Boating Party*.

ANSWER: Pierre-Auguste **Renoir**

[10] Renoir's son Jean used this artistic medium to create *Grand Illusion* and *The Rules of the Game*. This art form's forefathers include the Lumière brothers.

ANSWER: **film** [accept **cinema** or **movies** or similar] <JR>

15. Remember the Titans by answering these questions about them, for 10 points each.

[10] This ruler of the Titans castrated his father Uranus with a sickle. His attempts to swallow his own children failed, allowing Zeus to overthrow him.

ANSWER: **Cronus** [or **Kronos**; accept **Saturnus**]

[10] These monsters were freed by Zeus along with the Hundred-Handed Ones to help beat the Titans. They forged Zeus's lightning bolts. A later one was blinded by a man claiming to be "Nobody."

ANSWER: **Cyclopes** [or **cyclopes**]

[10] This Titaness makes this bonus work by presiding over memory. Her children by Zeus include Clio, Calliope, and Terpsichore.

ANSWER: **Mnemosyne** ("neh-MAH-si-nee") <MJ>

16. Answer these questions about ancient Greek pottery, for 10 points each.

[10] This democratic city's potters' district, the Kerameikos, is the origin for our word "ceramic." It fought Sparta in the Peloponnesian War and built the Acropolis.

ANSWER: **Athens** [or **Athena**]

[10] These two-handed, long-necked ceramic jugs were used to store olive oil and wine for ancient world trade. Smaller than a *pithos*, this type of jar was usually between two and three feet high.

ANSWER: **amphoras** [or **amphorae**]

[10] This political procedure involved writing names on shards of broken pottery lying by the road. Miltiades's son Cimon underwent it in 461 BCE.

ANSWER: **ostracism** [or being **ostracized**] <MJ>

17. This man warned that "if you gaze long into the abyss, the abyss gazes also into you," perhaps presaging his own descent into madness in 1889. For 10 points each:

[10] Name this German philosopher, who questioned the "slave morality," and coined the term *übermensch* in *Thus Spake Zarathustra*.

ANSWER: Friedrich Wilhelm Nietzsche

[10] This three-word phrase from Nietzsche's *The Gay Science* expresses the idea that religion has lost its value and place in the secular Western culture of his day.

ANSWER: "God is dead" [or "Gott ist tot"]

[10] In this set of three essays, Nietzsche wrote how the ancient Greek idea of "bad" as lack of skill was adopted as "the good" by early Christians, who also began to refer to the Greek idea of good as "evil."

ANSWER: *On the Genealogy of Morals* [or *On the Genealogy of Morality*; or *Zur Genealogie der Moral: Eine Streitschrift*] <EB>

18. These organelles are plastids and are found in all Viridiplantae. For 10 points each:

[10] Name these organelles in which photosynthesis occurs.

ANSWER: chloroplasts

[10] This theory claims that chloroplasts were once free-living cyanobacteria that were engulfed by a eukaryote and converted into an organelle.

ANSWER: endosymbiotic theory [or word forms]

[10] Some evidence that chloroplasts are endosymbionts is that their membranes have this property, suggesting an invagination of the parent cell's membrane.

ANSWER: there are two membranes [or it is a double membrane; or anything expressing that the number of membranes is not one but rather two] <DL>

19. This play's protagonist unwillingly marries Yussup, a peasant who feigned illness to avoid the draft. For 10 points each:

[10] Name this play by Bertolt Brecht, in which the judge Azdak determines that Grusha is the true mother of Michael after a tug-of-war in the title location.

ANSWER: *The Caucasian Chalk Circle* [or *Der Kaukasische Kreidekreis*]

[10] This chalky mineral is composed of magnesium silicate and has a hardness of 1 on the Mohs hardness scale. It can be identified by its distinctive soapy feel, and is often found in baby powder.

ANSWER: talc

[10] Limestone chalk composes much of this feature visible by boat from the English channel. They can be seen in the top right of Ford Madox Brown's painting *The Last of England*.

ANSWER: the white cliffs of Dover [or chalk cliffs of Dover] <HX>

20. Name these writings by Herman Melville, for 10 points each.

[10] In this novel, Captain Ahab of the *Pequod* chases after the title white whale.

ANSWER: Moby-Dick; or, *the Whale*

[10] This shorter work stars a character who hits Claggart and is thus sentenced to be hung by Captain Vere of the *HMS Bellipotent*.

ANSWER: Billy Budd, *Sailor (An Inside Narrative)* [or Billy Budd, *Foretopman*]

[10] In this novella, Amasa Delano boards the *San Dominick*, a ship captained by the title character, only to find that it is actually being run by slaves like Babo.

ANSWER: Benito Cereno <JR>

21. Despite being classified as a continent, if all the ice on this landmass melted, it would become an archipelago.
For 10 points each:

[10] Name this southernmost continent, home to many penguins.

ANSWER: **Antarctica**

[10] Named for a British explorer, this geographic feature, the start of the Amundsen and Scott expeditions, abuts McMurdo Sound. Thousands of feet thick, it lies between Marie Byrd Land and Victoria Land.

ANSWER: **Ross Ice Shelf** [or **Victoria Barrier**; or **Great Ice Barrier**]

[10] Containing the Sentinel and Heritage Ranges, this mountain range, split by the Minnesota Glacier, contains Antarctica's highest mountain, Vinson Massif.

ANSWER: **Ellsworth** Mountains <JW>