

Bulldog High School Academic Tournament 2016 (XXV): "Pencil and paper ready..."

Written by Yale Student Academic Competitions (Stephen Eltinge, Adam Fine, Isaac Kirk-Davidoff, Moses Kitakule, Laurence Li, Grace Liu, Olivia Noble, Jacob Reed, Basil Smitham, Connor Wood, Haohang Xu, and Cathy Xue)

Edited by Jacob Reed

Packet 7 Tossups

1. In a novel by this author, the protagonist briefly serves in the New York Assembly at the urging of Theodore Roosevelt. In that novel by this author, which opens with Christine Nilsson singing *Faust* at the old opera house, Julius Beaufort is disgraced by financial speculation. This author created an obese family matriarch, Mrs. Manson Mingott, whose wishes are sidestepped when (*) May announces her pregnancy, ending the emotional affair between Ellen Olenska and Newland Archer. In another novel by this author, Mattie Silver and the title character try to commit suicide by crashing a sled into a tree. For 10 points, name this author of *The Age of Innocence* and *Ethan Frome*.

ANSWER: Edith Wharton <GL>

2. One painting by this artist was inspired by a commission to make a stained-glass window for the Veterans Memorial Coliseum. This man depicted himself glowering at the viewer while relatives bow their heads behind him in his *Return from Bohemia*. He painted three old (*) ladies, one of whom holds a teacup, in front of a recreation of *Washington Crossing the Delaware*. In his most famous painting, this artist's sister stands sternly in front of a house, next to his dentist holding a pitchfork. For 10 points, name this American regionalist painter of *Daughters of Revolution* and *American Gothic*.

ANSWER: Grant (DeVolson) Wood <AF>

3. This nation's independence effort was led by Nnamdi Azikiwe. This nation briefly transitioned back to democracy at the end of the Obasanjo regime. In what became this modern nation, a nineteenth-century Islamic scholar named Usman dan Fodio started the Sokoto Caliphate. This nation fought a breakaway state led by Emeka Ojukwu under Yakubu (*) Gowon. It has promised to stem corruption in its oil industry under Muhammadu Buhari. This nation's Biafran war was sparked by Hausa and Yoruba persecution of its Igbo people. For 10 points, name this most populous country in Africa, which has recently experienced attacks by Boko Haram.

ANSWER: Federal Republic of Nigeria <JR>

4. This poet addressed "happy...leaves" that will be held by his love's "lily hands." One of his sonnets begins "One day I wrote her name upon the strand." This author of the most famous "Epithalamion" invented a form where eight lines of iambic pentameter are followed by an alexandrine. His most famous poem begins as "a gentle knight was pricking on the plain." In that poem by this author of (*) *Amoretti*, the protagonist kills Error and the giant Orgoglio, is deceived by Duessa, is accompanied by Una, represents Holiness, and has a Red Cross on his armor. For 10 points, name this sixteenth-century English poet who portrayed Queen Elizabeth as Gloriana in *The Faerie Queene*.

ANSWER: Edmund Spenser <CW/JR>

5. This man's mother-in-law was healed by Jesus at their home in Capernaum. In Galatians, this man was rebuked by Paul in Antioch for treating Gentile Christians as inferior to their Jewish counterparts. This disciple hesitated when Jesus began washing his feet. After this man accused them of lying, Ananias and Sapphira were struck dead. This man cut off the ear of Malchus and revived (*) Tabitha. He asked to be crucified upside-down. This former fisherman was called the "rock of the church" despite denying Jesus three times. For 10 points, name this Apostle who became the first Pope and is traditionally depicted letting people into Heaven.

ANSWER: Pope Saint Peter I [accept Simon Peter, Simeon, Petros, or Petrus; prompt on just "Simon"] <MK>

6. This party merged with the Liberal Unionists in 1912, and a Prime Minister from this party agreed to the Entente Cordiale. During this party's rule, the 1926 General Strike was called in support of coal miners. Lord Salisbury and Arthur Balfour were leaders of this party. One of its members took power after the Norway Debate and coined the term (*) "Iron Curtain." Another Prime Minister from this party declared "Peace for Our Time" after coming home from the Munich Conference. The most famous member of this party read the "Blood, toil, tears, and sweat" and "Finest hour" speeches. For 10 points, name this political party of Neville Chamberlain and Winston Churchill.

ANSWER: British Conservative Party <LL>

7. A literary character falls in love with the image of this figure in a magic mirror after a scene in Auerbach's Cellar. Later in that work, this character is criticized by an Emperor's court and rescued by "Phorkyas." The title character of that play has an Icarus-like child named Euphorion with this character, and looks for her during a (*) "Walpurgisnacht." This character is the namesake of the maid in *Omeros*. This figure is told to "make me immortal with a kiss," after Marlowe's Faustus asks "Was this the face that launched a thousand ships?" For 10 points, name this beautiful wife of Menelaus, whose abduction by Paris started the Trojan War.

ANSWER: Helen of Troy [or Helen of Sparta; or Helena] <JR>

8. Late in his life, this architect designed a museum dedicated to his own works and commissioned by Heidi Weber, as well as the National Museum of Western Art in Tokyo. The white walls of one of his churches have many seemingly randomly-sized windows and a boat-like upturned roof. He implemented his idea of a "Radiant City" in his design for the city of (*) Chandigarh. Many of his buildings are made of white concrete, include rooftop gardens, and are supported on pilotis, as per his book *Towards a New Architecture*. For 10 points, name this early twentieth-century Swiss-French architect, who created the chapel Notre Dame du Haut and the Villa Savoye.

ANSWER: Le Corbusier [or Charles-Édouard Jeanneret-Gris] <JR>

9. This element can upregulate its own release through interaction with ryanodine receptors. Inositol triphosphate, or IP3, is the primary regulator for channels of this element. This ion is bound by oxalic acid, with sometimes fatal effects. The amount of this ion in the blood is reduced by a hormone released by the parafollicular cells of the (*) thyroid. This ion binds to troponin to initiate muscle contraction. This ion and phosphate are used to make hydroxyapatite by osteoblasts. Absorption of this ion is promoted by Vitamin D. For 10 points, name this element responsible for the strength of bones and teeth.

ANSWER: calcium [accept "Ca-two-plus" or "Ca-plus-plus"] <AF>

10. Two figures worshiped by these people were reincarnated as catfish when their remains were thrown in a river. These people identified the Big Dipper with a demon who was shot out of the sky, but tore an arm off of his shooter. In the eighteenth century, the traditions and lore of these people were collected in the *Chailam Balam*. A demon of these people had his teeth replaced with (*) corn and was named Seven Macaw. These people believed that One-Death and Seven-Death, the Lords of Xibalba, were overthrown by Hunahpu and Xbalanque, as recorded in the *Popul Vuh*. For 10 points, name these Mesoamerican people who built settlements at sites such as Mayapan and Chichen Itza.

ANSWER: Mayans <CX>

11. A formal approach to this field is based on the axioms of non-negativity, unit measure, and sigma-additivity and was proposed by Andrey Kolmogorov. Those axioms of this field explain how to construct a measure function that maps events to real numbers between zero and one. This field is used to study stochastic processes like Markov chains. The derivative of the cumulative (*) distribution function is a "density function" named for it. In this field, "conditional" values are calculated with Bayes's theorem. Example problems in this field often involve flipping coins or rolling dice. For 10 points, name this branch of math that concerns itself with the likelihood of uncertain events.

ANSWER: probability theory <SE>

12. This state funded its own spy organization, its "State Sovereignty Commission," which provided funding to its Citizens' Councils. The Chief Deputy Sheriff of Neshoba County, Cecil Price, led a group in this state that killed James Earl Chaney and two other CORE workers. That incident was subject to an FBI investigation titled "this state" burning. The (*) Freedom Summer happened in this state. In 1994, Byron de la Beckwith was convicted of a crime he committed in this state in 1963, the killing of NAACP field secretary Medgar Evers. James Meredith desegregated its flagship university in 1962. For 10 points, name this Southern state governed from Jackson.

ANSWER: Mississippi <IKD>

13. The protagonist of one of this author's novellas accidentally gets into an angry argument with his friends, and follows them to a brothel after showing up to a going-away dinner party an hour early. That novella by this author begins "I am a sick man...I am a wicked man." In a novel by this author, a monk loses his faith when an elder's body begins to (*) putrefy. This author of *Notes from Underground* has Alyosha hear the "Parable of the Grand Inquisitor" in a novel in which Smerdyakov murders the father Fyodor. For 10 points, name this nineteenth-century Russian author of *The Brothers Karamazov*.

ANSWER: Fyodor (Mikhailovich) Dostoyevsky <JR>

14. This function is raised to the fourth power in the denominator of the formula for the Rutherford scattering cross section. In fiber optics, this function appears in the definition of numerical aperture. This function evaluated at twice its usual argument appears in the formula for the range of a projectile. Finding the motion of a pendulum involves (*) approximating this function of theta by theta alone, in the small angle approximation. This function multiplied by the index of refraction remains constant across a medium boundary according to Snell's law. For 10 points, name this trigonometric function, equal for a right triangle to the ratio of the opposite side length to the hypotenuse.

ANSWER: sine function [accept answers like "sine of x" or "sine theta"] <SE>

15. Many of this man's most famous ideas have been traced to his early *Lectures on Jurisprudence*. This man famously quipped "Nobody ever saw a dog make a fair and deliberate exchange of one bone for another with another dog." This man developed an ethics based on "sympathy" in his first book. In 1759, this most famous student of Francis Hutcheson published *The Theory of* (*) *Moral Sentiments*. In a book published in 1776, he illustrated the power of the division of labor with the manufacture of pins. This Scottish thinker compared the economic benefits of capitalism to an "invisible hand." For 10 points, name this economist who described the labor theory of value in *The Wealth of Nations*.

ANSWER: Adam Smith

16. This ingredient is often used to flavor blancmange. These are the "bits" in a Bit-O-Honey. This ingredient features in the most popular *dragée* ("dra-ZHAY"), which is named for Jordan. A Spanish variety of this ingredient is often fried in oil and is named for Marcona. This is the primary non-chocolate solid in a Toblerone bar. This ingredient is, perhaps surprisingly, botanically closest to (*) peaches. This is the structural ingredient in a French *macaron* and it is the flavor of frangipane. This is the primary ingredient in marzipan and the main flavor in bear claws and biscotti. For 10 points, name this "nut" featured in a candy bar called "[it] Joy".

ANSWER: almonds [accept Jordan almonds, Marcona almonds, or Almond Joy] <JR>

17. [Note to moderator: this answerline is a little bit complicated. You may want to look it over before reading the question]

This state issued the "Law of the Maximum" to stabilize its hyperinflating currency, the *assignat*. This state's legislative bodies included the Five Hundred and the Council of Ancients. This state was established in the aftermath of the Battle of Valmy. Within this state, the Enragés helped "The Mountain" take over by expelling the (*) Girondins. It was run by the National Convention, the Consulate, and the Directory. This state declared 1792 "Year One." For 10 points, name this state that Napoléon turned into the First Empire, and which was established after the execution of Louis XVI during the French Revolution.

ANSWER: French First Republic [or Première République Française;

Prompt on answers like "French Republic"; prompt on answers like "Revolutionary France" or just "France";

If someone answers with "National Convention," "Consulate" or "Directory," anti-prompt by asking "That was a government of which *state*?"] <JR>

18. One piece in this genre famously begins with the timpani quietly playing five Ds. A formally innovative early Mozart piece in this genre was nicknamed "Jeunehomme." Mozart wrote four of these pieces for Joseph Leutgeb. Another Mozart piece in this genre became known for its appearance in the movie *Elvira Madigan*; he also played one of these pieces at Leopold II's (*) coronation. Beethoven's last work for piano in this genre has been nicknamed "Emperor." Mozart's last work in this genre was written for clarinetist Anton Stadler. For 10 points, name this orchestral genre that usually features a virtuoso soloist.

ANSWER: concertos [or concerti; accept violin concerto; accept piano concertos; accept clarinet concertos; accept horn concertos] <JR>

19. In a show named for this noun, two characters meet while auditioning for *Major Barbara*. Another show named for this noun features two former diner employees trying to start a cupcake store. A character from a show named for this noun leaves a non-apology apology letter and drops out of the Iowa Writer's Workshop. Hannah Horvath appears alongside Allison Williams and (*) Adam Driver in a show named for this word.

Another show with this noun in the title was marketed as "adorkable" and stars Zooey Deschanel as the "New" one of these people. For 10 points, Lena Dunham creates and writes a show named for what kind of people?

ANSWER: girls [accept New Girl; accept Two Broke Girls] <IKD>

20. This element's oxide is added in the second step of the Hofmann elimination. This is the element found in lesser proportion in the alloy electrum. Two ammonium ions are bound to this element in a reagent that detects aldehydes by precipitating this element. Atoms of this element were used to show the quantization of spin in the (*) Stern–Gerlach experiment. This element's iodide is often used to seed clouds. Salts of this element are the primary active chemicals in black-and-white photographs. This element, and not copper, has the highest thermal and electrical conductivity. For 10 points, name this element below gold on the periodic table, with symbol Ag.

ANSWER: silver [accept Ag until read] <AF>

Tiebreaker

21. A piece titled for this time period accompanies the rise and extinction of the dinosaurs in Disney's *Fantasia*. This time period lends its name to Beethoven's F-major fifth violin sonata and Schumann's first symphony. A ballet named for this time period had its set designed by Nicolas Roerich, was the most famous commission of Sergei (*) Diaghilev, and opens with an extremely high bassoon solo. A violin concerto depicting this time period includes depictions of "murmuring streams," a barking dog, and trills representing birdsong. A riot broke out at the premier of a Stravinsky ballet about a "Rite" of this time period. For 10 points, name this first of Vivaldi's *Four Seasons*.

ANSWER: Spring [or Frühling; or printemps; or primavera] <JR>

Packet 7 Bonuses

1. This molecule is produced by the enzyme tyrosine hydroxylase. For 10 points each:

[10] Name this molecule that can cross the blood-brain barrier, unlike the similar molecule dopamine. This compound is therefore useful in treating conditions like dystonia, but in excess, it can cause dyskinesia.

ANSWER: **L-DOPA** [accept **levodopa**; do **not** accept or prompt on just "DOPA" or "D-DOPA"]

[10] L-DOPA is the precursor to dopamine, norepinephrine, and epinephrine, which are examples of these substances that aid transmission of electrical signals across synapses in the brain.

ANSWER: **neurotransmitters**

[10] L-DOPA is the most common medication used to treat this neurological condition. It is characterized by progressive slowing and difficulty of movement, followed by cognitive symptoms like dementia.

ANSWER: **Parkinson's** disease [accept any answer containing "**Parkinson**"] <AF>

2. Jake Brown returns to this location in the most famous novel of Claude McKay. For 10 points each:

[10] Name this New York City neighborhood. Its namesake "Renaissance" included the careers of black authors like Jean Toomer, Zora Neale Hurston, and Langston Hughes.

ANSWER: **Harlem** [accept **Harlem Renaissance**]

[10] Several of Langston Hughes' most famous poems are about these entities. In one poem, he says to "hold on to" them, since without them "life is a broken-winged bird that cannot fly."

ANSWER: **dreams** [accept "**a dream deferred**"]

[10] This other Langston Hughes poem includes parentheticals like "There's never been equality for me, nor freedom," and declares "I am the poor white...I am the Negro...I am the red man...I am the immigrant."

ANSWER: "**Let America be America Again**" <JR>

3. This country's nuclear tests have been seen as a strategy to blackmail for aid. For 10 points each:

[10] Name this Asian Communist country ruled by Kim Il-Sung, Kim Jong-Il, and Kim Jong-Un.

ANSWER: **North Korea** [or **DPRK**; or **Democratic People's Republic of Korea**; do **not** accept or prompt on just "Korea," "South Korea," or "ROK"]

[10] North Korea moved to a more market-based economy after a breakdown in the distribution of these items during its famine of the '90s. In the World War II-era U.K. and U.S., "books" of coupons were issued for these items.

ANSWER: **rations** [prompt on more general answers like "food"; accept **BDS** or **Basic Distribution System**]

[10] North Korea's official ideology is given this name, which is Korean for "Self-reliance." A tower named after this ideology is constantly lit in Pyongyang and it names a calendar that starts with the date of Kim Il-Sung's birth.

ANSWER: **juche** [or **chu'che**] <IKD>

4. Answer some questions about the history of the periodic table, for 10 points each.

[10] This Russian chemist is usually given credit for first placing the elements into rows and columns in order of increasing atomic number.

ANSWER: Dmitri (Ivanovich) **Mendeleev**

[10] Mendeleev used his table to predict the properties of as-yet-undiscovered elements. For instance, he predicted gallium, calling it "eka"-*this* element due to the position it filled on the table.

ANSWER: **aluminum** [accept **eka-aluminum**]

[10] Mendeleev failed to include any of *these* elements in the table because none of them had been discovered yet. When discovered, they added a column to the table and inspired the formulation of the octet rule.

ANSWER: **noble gases** [or **group 18** elements; or **group eight-A** elements] <SE>

5. The title character has an extra finger and really likes Marcus Aurelius in this author's novel *A House for Mr Biswas*. For 10 points each:

[10] Name this only Nobel prize laureate from Trinidad and Tobago.

ANSWER: V.S. **Naipaul** [Vidiadhar Surajprasad Naipaul]

[10] One of Naipaul's most famous novels takes place at "a bend in" one of these geographical entities. In *Heart of Darkness*, Marlow journeys up one of these bodies of water.

ANSWER: **rivers** [accept *A Bend in the River*]

[10] The protagonist of *A Bend in the River* meets a priest from this country who has an extensive collection of African masks. In *Heart of Darkness*, Mr. Kurtz is from this country.

ANSWER: Kingdom of **Belgium** [or Koninkrijk **Belgie**; or Royaume de **Belgique**; or Königreich **Belgien**] <JR>

6. This popular *Masterpiece Classic* period drama first aired in 2010. For 10 points each:

[10] Name this TV show that features the scandals and machinations of the Crawley family and their staff.

ANSWER: ***Downton Abbey***

[10] The second season of *Downton Abbey* focuses on the effects of this "Great" war of the early twentieth century.

ANSWER: **World War I**

[10] The witty *Downton Abbey* character Violet Crawley, also known as the Dowager Countess of Grantham, is played by *this* British actress. She recently played a homeless woman in *The Lady in the Van*.

ANSWER: Maggie **Smith** [Dame Margaret Natalie Smith] <ON>

7. Answer some questions about "zeroes" in chemistry, for 10 points each.

[10] First, name the lowest possible temperature, at which atoms are theorized to stop moving entirely.

ANSWER: **absolute zero** [or **zero kelvin**; accept **-273.15** Celsius; accept **-459.67** Fahrenheit]

[10] For a system at thermodynamic equilibrium, the change in *this* quantity is zero. It also equals "negative *R* times temperature, times the natural logarithm of the equilibrium constant."

ANSWER: **Gibbs free energy** [accept **free enthalpy**; accept **Gibbs energy**; prompt on "*G*"; prompt on just "free energy"]

[10] The change in this other quantity is zero for isochoric processes. The change in this quantity is multiplied by temperature in the denominator of the Clausius–Clapeyron equation.

ANSWER: **volume** [prompt on "*V*"] <AF>

8. This city names a very rich sauce made with bone marrow and shallots. For 10 points each:

[10] Name this port on the Garonne River. It is the capital of Aquitaine.

ANSWER: **Bordeaux**

[10] Bordeaux is home to a number of these historic buildings, which proliferated in the Loire Valley.

ANSWER: **castles** [or **châteaux**]

[10] In Bordeaux, any estate that produces this beverage is called a "château." Other regions of France famous for producing this drink include Burgundy and Champagne.

ANSWER: **wine** [or **vin**] <JR>

9. Answer the following about the economy of the Weimar Republic, for 10 points each.

[10] The German government claimed that its economy was being stifled by these payments, which were imposed by the Treaty of Versailles as compensation for German aggression in World War I.

ANSWER: **reparations**

[10] The Weimar Republic decided to pay its reparations by just printing more money. Unsurprisingly, that caused *this* phenomenon, in which its currency gradually lost almost all of its value.

ANSWER: hyper**inflation** [prompt on "devaluation"]

[10] The former Allied powers capitulated to German demands for lowered reparations with this 1929 plan named for an American industrialist. This plan agreed to defer huge portions of the German debt indefinitely.

ANSWER: the **Young** Plan <JR>

10. Although it is best known for its epistemological material, the *Meno* begins in search of a definition of *this* concept. For 10 points each:

[10] Name this concept. Homer describes characters like Penelope as having *arete* ("ah-REH-tey"), which is the Greek word for this trait.

ANSWER: **virtue**

[10] Virtue is central to most ancient Greek works in this branch of philosophy, which concerns right and wrong.

ANSWER: **ethics** [prompt on any answer with the words "moral" or "morals" in it]

[10] Aristotle's virtue ethics were most famously laid out in a book named for this son of his. You can also give the adjectival form of the boy's name that is in the title of that *Ethics*.

ANSWER: **Nicomachus** [accept **Nicomachean Ethics**] <JR>

11. Name some things about volcanoes in mythology, for 10 points each.

[10] Pele is this people's goddess of volcanoes. Her significance in their myth system is explained by the presence of many volcanoes where these people lived, such as Mount Kilauea and Mauna Loa.

ANSWER: **Hawaii'**an peoples

[10] Native Americans in the Pacific Northwest associate this volcano with a maiden who protects the Bridge of the Gods over the Columbia River.

ANSWER: Mount **Saint Helens**

[10] Zeus trapped this monster under the volcano Mount Etna. This last son of Gaia by Tartarus sired, among other creatures, Orthrus and the Lernaean Hydra with Echidna.

ANSWER: **Typhon** [or **Typhoeus**, **Typhaon**, or **Typhos**] <CX>

12. He revolutionized textile and wallpaper manufacture with designs like the *Trellis* pattern. For 10 points each:

[10] Name this late nineteenth-century British artist, who led the Arts and Crafts movement. He was also an architect, designing the "Red House" in London.

ANSWER: William **Morris**

[10] William Morris founded a famed one of these businesses at Kelmscott. Earlier ones were founded by William Caxton and Johannes Gutenberg.

ANSWER: printing **press** [accept reasonable equivalents like **publisher**, **bookmaker**, or **printer**]

[10] At Kelmscott, Morris also produced the "hand-knotted" variety of these art objects. Two famous examples of these objects are named for Ardabil.

ANSWER: **rugs** [accept **carpets**] <JR>

13. Answer some questions about antecedents of the militia movement, for 10 points each:

[10] This standoff between Randy Weaver and law enforcement in a namesake remote region of Idaho resulted in the death of a U.S. Marshal, as well as Weaver's wife and son.

ANSWER: **Ruby Ridge** standoff [accept any answer describing some kind of event at **Ruby Ridge**]

[10] The Oklahoma City Bombing occurred on the second anniversary of the siege of a Branch Davidian compound in this state's city of Waco. This state was later governed by Rick Perry.

ANSWER: **Texas**

[10] The sieges in Waco and Ruby Ridge were partially performed by this Federal agency that regulates firearm possession and several potentially dangerous recreational activities.

ANSWER: the **ATF** [or Bureau of **Alcohol, Tobacco, Firearms and Explosives**] <IKD>

14. Answer the following about Beethoven's dramatic middle period, for 10 points each.

[10] This symphony gives its name to a Beethoven style that seems to imply a narrative and a thematic "protagonist." This E-flat major Beethoven symphony was originally dedicated to Napoléon.

ANSWER: the "**Eroica**" Symphony [or Beethoven's **third**; or Symphony No. **3**; accept **Opus 55**]

[10] Many of Beethoven's most dramatic pieces, like his "Pathétique" and last piano sonatas, were written in this key. Beethoven used this key for the second movement of the "Eroica," since it's the relative minor of E-flat major.

ANSWER: **C minor** [do **not** accept or prompt on just "C"]

[10] Beethoven's most famous C-minor piece is this super-dramatic symphony. It begins with a "short-short-short long" motif that has been described as "fate knocking at the door."

ANSWER: Symphony No. **5** [or Beethoven's **fifth**; accept **Opus 67**] <JR>

15. Only one source for this poem survives, the Nowell Codex. For 10 points each:

[10] Name this Old English poem. Its title hero slays Grendel, Grendel's mother, and a dragon.

ANSWER: **Beowulf**

[10] This recently-deceased Irish poet and Nobel laureate is most famous for his translation of *Beowulf*. He wrote poems like "Digging" and "Blackberry Picking."

ANSWER: Seamus (Justin) **Heaney**

[10] This author and scholar of Anglo-Saxon literature defended the literary quality of *Beowulf* in the hugely influential essay "*Beowulf*: The Monsters and the Critics."

ANSWER: J.R.R. **Tolkien** [John Ronald Reuel Tolkien] <JR>

16. This king declared a "Bishops' War" against Scotland and was opposed by John Pym. For 10 points each:

[10] Name this English king who was targeted by the Petition of Right and executed in 1649.

ANSWER: **Charles I** [prompt on just "Charles"]

[10] Charles employed this unpopular Archbishop of Canterbury. Charles imposed this man's Book of Common Prayer on his Scottish subjects, leading to rioting.

ANSWER: William **Laud**

[10] Charles was often at odds with this English governmental institution, which was later reduced to a "Rump" state by Thomas Pride's Purge. It is composed of a House of Commons and a House of Lords.

ANSWER: **Parliament** of England <LL>

17. This quantity is given by " I times omega." For 10 points each:

[10] Name this quantity equal to " r -cross- p ." It is conserved in the absence of external torque, and Kepler's second law is a consequence of its conservation.

ANSWER: **angular momentum** [prompt on " L "; do **not** accept or prompt on just "momentum"]

[10] Due to conservation of angular momentum, moving the mass of an object closer to its axis of rotation will cause *this* change in its rotation. In a classic demonstration, *this* change happens as a spinning ice skater draws her arms in.

ANSWER: it **speeds up** [accept equivalents like "its **angular velocity increases**" or "**it becomes faster**"]

[10] Angular momentum and angular velocity usually have this property. This property does *not* hold when the moment of inertia matrix has off-diagonal terms, such as for a wheel rotating at an angle to its primary axis.

ANSWER: they are **parallel** <AF/JR>

18. This collection's first poem equates Satan with Hermes Trismegistus and describes Ennui, who "dreams of scaffolds as he smokes his hookah pipe." For 10 points each:

[10] Name this collection. Its first poem, "To the Reader," ends "Hypocrite Reader,— My fellow,— My brother!"

ANSWER: *Les Fleurs du mal* [or *The Flowers of Evil*]

[10] Charles Baudelaire's pioneering poetry collection *Les Fleurs du mal* came out in 1857. Unsurprisingly, it was heavily censored by *this* regime under Napoléon III.

ANSWER: the **Second French Empire** [or Le **Second empire** français]

[10] Baudelaire's *Les Fleurs du mal* includes a poem about one of these creatures. Another one of them is the title character of Bram Stoker's *Dracula*.

ANSWER: **vampires**

19. Albrecht Dürer created several of these paintings, including one that features an opulent fur-collared robe. For 10 points each:

[10] Name this type of artwork, exemplified by a Rembrandt painting of two circles in the background and himself in the foreground.

ANSWER: **self-portrait** [prompt on just "portrait"]

[10] This English painter created a 1986 triptych of self-portraits in which his face is smeared. He is more famous for his unsettling portraits of blood-spattered, screaming popes, such as his *Study* after a portrait of Pope Innocent X.

ANSWER: Francis **Bacon**

[10] Bacon's *Study* was based on this earlier painter's portrait of Pope Innocent X. This artist is more famous for paintings like *Old Woman Frying Eggs* and *The Surrender of Breda*.

ANSWER: Diego (Rodríguez de Silva y) **Velázquez** <LL>

20. This religion arose in the eleventh century after the Western Schism. For 10 points:

[10] Name this dominant branch of Christianity in Greece, Turkey, and Russia.

ANSWER: **Eastern Orthodox** Church

[10] The "Images Not Made by Hands" and "Our Lady of the Sign" are examples of *these* religious images, which are venerated in the Eastern Orthodox Church. They often depict Christ *Pantocrator*.

ANSWER: **icons**

[10] This man has been the Patriarch of Constantinople, and thus the leader of the Eastern Orthodox Church, since 1991.

ANSWER: **Bartholomew I** [or Dimitrios **Arhondonis**] <ON/JR>

Tiebreaker

21. People hiking the calf-killing, nineteen-mile traverse of this range will pass three huts, eight peaks and many ups and downs. For 10 points:

[10] Name this mountain range that includes the highest point in New England and was surveyed by Brandon Washburn. It is home to the Lake of the Clouds, a cog railroad and the Great Gulf Wilderness.

ANSWER: **Presidential** Range [prompt on **White** Mountains; accept **Prezis** ("PREZ-eez")]

[10] The highest point in New England is this highest peak of the Presidentials. It also holds the record for fastest wind speeds recorded outside a hurricane or tropical storm.

ANSWER: Mount **Washington** [or **Agiocochook**]

[10] Some hikers on this long trail take pride in skirting around the top of Washington and mooning the cog railway. This trail runs along its namesake mountain range all the way from Georgia to Maine.

ANSWER: The **Appalachian** Trail [or **AT**] <IKD>