

Stevenson Memorial Tournament 2018

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Packet 5

Tossups:

1. For a purification ceremony at this place, the wealthy general Nicias built a boat bridge to it and paid its inhabitants to pray for him at banquets. During the Roman era, Cilician pirates used the “Agora of the Italians” at this place as the site of the Mediterranean’s largest slave market. Socrates’s death was delayed because executions could not occur in Athens while a ship sailed to this place during its namesake festival. Ten officials called the (*) *hellenotamiai* managed a treasury located in a temple on this island that Pericles moved to Athens in 454 BC. After the Battle of Plataea, this island became the namesake of an Athens-led league of anti-Persian city-states. For 10 points, name this small island, a member of the Cyclades sacred as the birthplace of Apollo and Artemis.

ANSWER: Delos [accept Delian League]

<JB European History>

2. The discovery of clays rich in this compound on Ceres provide evidence that it may have formed in the outer solar system then migrated inwards. Water, this compound, and its hydrosulfide make up the top layer of clouds on Jupiter. A slurry of this compound and water are thought to make up the subsurface ocean on Enceladus. This was the first polyatomic compound to be detected in interstellar space. Townes, Gordon, and Zeiger used the inversions of this (*) pyramidal compound to generate microwaves in the first maser. In space, this molecule is degraded by reacting with H₂ to form a free hydrogen and a cationic species containing four hydrogen atoms. For 10 points, name this compound that on Earth is formed by the Haber process.

ANSWER: ammonia [or NH₃]

<EM Astronomy>

3. An author from this country wrote the memoir *Conversations in Bloomsbury*. In one novel, a character imagines the righting of a cart in this country at a farewell dinner narrated by internal monologues. Percival dies in this country in *The Waves*. In a novel set in this country, a man picks up a pair of broken field glasses and is later accused of sexual assault when another character claims that she swung those glasses at him. In that novel set in this country, (*) Mrs. Moore experiences a fit of claustrophobia, preventing her from exploring the Marabar Caves. In a novel set in this country, an echo gives Adela Quested a shock that leads her to falsely accuse a man of rape, and Cyril Fielding is told by Dr. Aziz that they cannot be friends until this country gains independence. For 10 points, “A Passage to” what former British colony titles a novel by E. M. Forster?

ANSWER: India [accept the British Raj]

<JK British Literature>

4. Like North Korea, this nation has a state news known as the Central New Agency, which recently reported shakeups in its cabinet meant to strengthen the president's power in regards to foreign policy. The 2016 elections in this nation marked the first time that a party not allied with the Pan-Blue Coalition had captured the most legislative seats since 2004, when (*) Chen Shui-bian [“chun shway-b'yen”] was re-elected as President. Panama, this country's greatest ally, recently cut diplomatic relations with it in a free trade deal with its neighbor, in a series of disturbances ever since the Progressive Democratic Party swept back to power. For 10 points, name this Asian nation where Tsai Ing-Wen rules from Taipei, which China claims control over.

ANSWER: Taiwan [accept Republic of China or ROC; or Chinese Taipei until read]

<AN Current Events>

5. A lineage of Republican thought is traced from this man to James Harrington to Jefferson in a book on his “moment” by J. A. G. Pocock. The “Very Short Introduction” to this person was written by Quentin Skinner, who attacked the idea of him standing at the “gateway of the modern world” as one “mythology of prolepsis.” This man, the subject of some “Thoughts” by Leo Strauss, wrote a book that was rebutted in a chapter-by-chapter critique in the first published work of (*) Frederick the Great, which is titled “Anti-[him].” This man called for his patrons to unite his country and free it from the “barbarians” in the last chapter of a book that advises beating and striking down fortune. That book argues that the title figure should be like a lion and a fox. For 10 points, name this author of *The Prince*.

ANSWER: Niccolò Machiavelli [accept *Anti-Machiavel*]

<JB European History>

6. A piece by this composer uses a mandolin over pizzicato strings and a soft D-flat in the basses in a movement depicting the October harvest. This composer used a French horn to represent conch shells in a movement of one piece that depicts dancing Naiads. The piece “Tropical Night” is the first in a five-piece series by this composer depicting (*) *Brazilian Impressions*. A piece by this composer uses buccine [“boo-CHEE-nay”] to represent an army and ends its third movement with a nightingale's song that was recorded on the namesake Janiculum hill. This composer wrote a trio of pieces depicting the catacombs, the circuses, and the Valle Giulia of a certain city. For 10 points, name this Italian composer of *Pines of Rome*.

ANSWER: Ottorino Respighi

<YFL Music and Opera>

7. This quantity appears in the name of the target of the anti-tumor medication geldanamycin. *Saccharomyces* mutants sensitive to this variable were used by Hartwell to figure out the role of cyclins in cell division. It's not related to electricity, but sudden changes in this quantity can be used to effect horizontal gene transfer in cellular transformation. This variable is observed by the preoptic anterior hypothalamus region in the brain, which gets signals from group A and group C nerve fibers through (*) Lissauer's tract. Its namesake “shock proteins” also perform chaperoning conditions during protein folding. Fevers increase this variable, and an excessive decrease in this is known as hypothermia. For 10 points, name this variable which in humans is approximately 98.6 degrees Fahrenheit.

ANSWER: heat [or temperature; accept small heat shock proteins or heat shock]

<DM Biology>

8. This artist is quoted as saying “You are interested in a certain painting because it is an arrangement of lines and colours” in “Vortex” by his admirer Ezra Pound. This artist depicted his patron as a bird playing piano in *The Gold Scab* after that patron, Frederick Leyland, sold off his property. His book *The Gentle Art of Making Enemies* was published with many of his butterfly monograms in its margins. This artist (*) won a single farthing in damages from a libel suit after he was accused of “flinging a pot of paint in the public’s face” by John Ruskin. This artist delighted in irritating critics by giving his paintings musical titles such as *Nocturne in Black and Gold*. For 10 points, name this artist of *Arrangement in Grey and Black*, which depicts his mother.

ANSWER: James Abbott McNeill Whistler

<JB Painting and Sculpture>

9. Characters in this play pick syringa together before one character expresses the desire to “make people tremble when they receive their bills.” A character in this play notes that “the eagle’s back is grey, just like the rest of him” while speaking with a woman who often dreams that she is on top of a pillar with no way down. The entirety of this play takes place on the midsummer holiday of St. John’s Night. After the (*) cook Kristine goes to church, a canary is killed with a meat chopper while this play’s two main characters plan to escape to Lake Como. The title character contemplates committing suicide with a razor blade in this play. For 10 points, name this play about a countess and her valet Jean, the most famous work of August Strindberg.

ANSWER: Miss Julie [or Froken Julie]

<OL European Literature>

10. A major source on this country’s mythology is a genre with a name meaning “Lore of Places,” in which legendary etymologies of place names are listed in metrical verse. Islands inhabited by ants and blacksmiths are among the locations described in one work of this country’s *immram* genre of sea voyage tales. Eremon’s wife is the namesake of a hill in this country topped by a stone that would scream to announce its new (*) king. A “plain of pillars” in this country was the site of two battles where first the Fir Bolg and then the Fomorians were defeated by Nuada’s people. A brown bull wanders around naming places before succumbing to his wounds at the end of an epic from this country, the *Tain* [“TOYN”], which chronicles the Cattle Raid of Cooley. For 10 points, name this country home to Cúchulainn [“cuh-HOO-lin”] and Fionn mac Cumhaill [“FIN mac COOL”].

ANSWER: Ireland [or Éire]

<YFL Mythology>

11. Eshelby names a form of this quantity that he described to be caused by “configurational forces” by equating bulk tension with bulk free energy. A pair of measures for this quantity named for Piola and Kirchoff differ in the fact that the first measure is a multiaxial generalization of the second. (*) Lamé’s ellipsoid is a method of visualization for this quantity using a principal axes model. The yield point represents the threshold for this quantity after which an object experiences inelastic deformation. The shear form of this quantity is the product of gamma and shear modulus. This quantity’s tensile form is found in the numerator of the definition of Young’s modulus. It’s not pressure, but it can be expressed as a force over area. For 10 points, name this quantity that often induces strain.

ANSWER: stress

<DM Physics>

12. **This monarch was stripped of the right to use a red tent in war by his father after failing to show respect when his sister was burned by chemicals in her perfume. This monarch defeated Josiah Child’s forces in Child’s War. His uncle Shaista Khan lost three of his fingers in a battle against one of his rivals, who later escaped this king’s arrest by hiding in a sweets basket. This monarch issued a Sharia-based law code called the *Fatawa-e-Alamgiri*. This monarch secured (*) power by winning the Battle of Samugarh against his brother Dara Shikoh. This monarch conquered cities such as Golconda and Bijapur, and had Tegh Bahadur executed for refusing to convert to Islam. His reign saw the rise of Shivaji’s Maratha Empire. For 10 points, name this son of Shah Jahan, the sixth Mughal emperor.**

ANSWER: Aurangzeb [or Muhi-ud-din Muhammad; accept Alamgir until “Alamgiri” is read]

<GP World History>

13. **Upon being reunited with her brother, a woman in this film quips “I know what you’re gonna say. I changed my hair.” A man with a stutter helps break prisoners out of a casino in this film and uses a Haysian ore medallion to reach a tracking device. Mutiny during a mission to Crait prevents a leader played by Laura Dern in this film from carrying out the wishes of a (*) general whose brother exiled himself on Ahch-To alongside porgs. This Rian Johnson-directed film marked Carrie Fisher’s last performance before her death and introduces Rose Tico as an ally to Finn, Rey, and other Resistance leaders as they continue the fight against Kylo Ren begun in *The Force Awakens*. For 10 points, name this most recent entry in the *Star Wars* sequel trilogy.**

ANSWER: *The Last Jedi* [or *Star Wars Episode VIII*; prompt on *Episode VIII* or *Star Wars*]

<OL Trash>

14. **One album by this musician consists of a single 40-minute performance by an 11-piece ensemble interspersed with solos by musicians such as Marion Brown and Pharoah Sanders. That album opens with the same “F A-flat, F B-flat” motif introduced by the double bass in the first track of another album by this man. The liner notes to an album by this man feature a devotional poem that this musician “plays” the words to on the last track, (*) “Psalm.” This musician reharmonized songs by using tone centers separated by major thirds, a technique known as his namesake “changes.” Ira Gitler described this musician’s playing as “sheets of sound.” For 10 points, name this jazz tenor saxophonist whose albums include *Ascension*, *Giant Steps*, and *A Love Supreme*.**

ANSWER: John Coltrane

<YFL Other Arts (Jazz)>

15. **A young boy in this novella says the best place he has seen in Europe is the *City of Richmond*, which is actually a boat. In this novella, a character exclaims “If this is improper, then I am all improper!” after refusing to enter a carriage with a character she often calls “stiff.” This novella begins with one character’s aunt complaining of headaches while in Vevey, Switzerland. While her mother chastises her younger brother Randolph, a woman in this novella tries to go on an evening (*) boat ride to the Chateau de Chillon and is not invited to Mrs. Walker’s parties after upsetting guests like the snobbish Mrs. Costello. After choosing Mr. Giovanelli over Frederick Winterbourne, the title character of this novella dies of Roman fever. For 10 points, name this novella by Henry James.**

ANSWER: *Daisy Miller: a Study*

<OL American Literature>

16. A leader of this colony relied on the translator Mary Musgrove for his dealings with Tomochichi. The Battle of the Rice Boats in this colony was won by Lachlan McIntosh, who later shot its governor Button Gwinnett. John and Charles Wesley established a ministry in this colony after its founder brought them here. Casimir Pulaski died at an unsuccessful siege of a city in this colony during the (*) Revolutionary War. Forces from this colony won the Battles of Gully Hole Creek and Bloody Marsh during the War of Jenkins' Ear. This colony, the only one not to send representatives to the First Continental Congress, was founded by a man who wanted to settle it with imprisoned debtors. For 10 points, name this British colony founded as a buffer against Spanish Florida by James Oglethorpe.

ANSWER: Province of Georgia

<GP American History>

17. The Watergate technique can be useful when studying aqueous samples with this technique. When this technique is applied to aqueous environments, DSS is a commonly used standard. For small samples, Shigemi tubes can replace the thin borosilicate tubes commonly used to hold samples in this technique. Modern apparatus for this technique typically present data as the Fourier transform of a raw free induction decay. (*) Karplus's curve can be used to determine dihedral angles from the coupling constants observed in this technique. The splitting pattern in this technique is calculated using the *n*-plus-one rule, where *n* represents the neighboring spin-coupled nuclei. Tetramethylsilane is used as a reference for chemical shifts in this technique, which comes in carbon-13 and proton variants. For 10 points, name this spectroscopy in which an applied magnetic field indicates molecular structures.

ANSWER: NMR spectroscopy [or Nuclear Magnetic Resonance spectroscopy]

<DM Chemistry>

18. Paul Fussell analyzed the impact of one of these texts created by Arthur Quiller-Couch on World War I writing. A 2015 book of this type controversially included "The Bees, the Flowers, Jesus, Ancient Tigers, Poseidon, Adam and Eve" after the pseudonym "Yi-Fen Chou" was revealed to be Michael Hudson. In 2011, Helen Vendler criticized the focus on "multicultural inclusiveness" in one of these texts, provoking a response letter from Rita Dove. Popular books of this type include (*) *Palgrave's Golden Treasury* and the *Oxford Books* series. In addition to their Critical Editions, W. W. Norton & Company is best known for putting out books of this type. For 10 points, name this type of books exemplified the *Best American Poetry* series, which consist of works of literature chosen by an editor.

ANSWER: poetry anthology [accept miscellany, compilation, poetry selection, or anything indicating a collection of works by multiple authors; accept treasury until "Treasury" is read; prompt on collection]

<JB World/Other Literature>

19. The story of this place is compared with a similar episode on the hill of Ephraim in Judges in a book about a certain virtue by Jacques Derrida that includes remarks by Anne Dufourmantelle ["doo-four-mon-TELL"]. Stories of this place, such as people being mutilated to fit uniformly-sized beds and a girl being executed by a swarm of bees for helping a beggar, are described in the midrashim ["meed-rah-SHEEM"]. A resident of this place leaves it for the town of Zoar because the mountains are too far; later, while living in a (*) mountain cave, he drunkenly impregnates his daughters. A mob in this place is struck blind after they are offered a man's daughters in place of the two men they want to rape. Because he showed hospitality to two angels, a man is allowed to leave this place with his family, but his wife looks back and is turned to salt. For 10 points, name this city destroyed with Gomorrah in Genesis.

ANSWER: Sodom and Gomorrah

<JB Religion>

20. Selves and these things engage in a cycle of “mutual constitution” described by the “Four I’s.” These things are classed according to “power distance,” “uncertainty avoidance,” and three other dimensions in a model by Dutch psychologist Geert Hofstede [“khairt HOFF-stay-duh”]. Hazel Markus pioneered the field of psychology that studies how these things influence the human psyche. John Berry suggested integration, separation, marginalization, and (*) assimilation as the four strategies of becoming immersed in a new one of these things. Ghost sickness and running amok are standard examples of syndromes specific to one of these things. Adapting to a different one of these things abroad can cause a namesake type of “shock.” For 10 points, name these sets of customs, beliefs, and values for a group of people.

ANSWER: **cultures**

<JB Social Science>

21. The “split-ubiquitin” version of a technique involving this organism uses “Cub” and “Nub” protein domains along with the the DNA-binding and activation domains of Gal4 [“gal-four”]. This organism is used in a lemon two-hybrid assay to study protein-protein interactions. Its Replicative and Chronological Life Spans are used in studies of aging, and its “mother cells” have their lifespans reset after undergoing meiosis and gametogenesis. This organism has mating (*) types *a* and alpha. A species of this organism with 16 chromosomes represented by the letters A through P was the first eukaryote to have its genome sequenced. This unicellular fungus is commonly used as a model organism and comes in both “budding” and “fission” varieties. For 10 points, name this organism used for leavening in bread.

ANSWER: **yeast** [or *Saccharomyces* or *Saccharomyces cerevisiae*]

<JK Biology>

Bonuses:

1. Nathaniel Gorham tried to give this position to Prince Henry of Prussia in the so-called Prussian Scheme. For 10 points each:

[10] Name this position that Lewis Nicola urged the commander-in-chief of the Continental Army to take in a letter written from his army quarters in Newburgh.

ANSWER: **Monarch** of the **United States** [accept **King** or anything indicating a **royal** title in place of “Monarch”; accept variants like **US** or **America** in place of “United States”]

[10] This commander-in-chief of the Continental Army, the recipient of Nicola’s letter, declared “I have not only grown gray but almost blind in the service of my country” in a speech that put down the Newburgh Conspiracy.

ANSWER: George **Washington**

[10] This “financier of the revolution” was believed to be one of the conspirators in the Newburgh Conspiracy. He served as Superintendent of Finance during the 1780s, and shares his surname with a founder named “Gouverneur” who wrote the Preamble to the Constitution.

ANSWER: Robert **Morris** Jr.

<GP American History>

2. This opera begins with a four-minute E-flat drone. For 10 points each:

[10] Name this opera in which the giants Fasolt and Fafner drag away Freia and an orchestral interlude uses 18 tuned anvils to depict Alberich’s slaves mining.

ANSWER: *Das **Rheingold*** [or *The **Rhinegold***]

[10] This composer’s *Das Rheingold* opens his Ring Cycle. This composer’s *Tristan und Isolde* is known for its opening dissonant chord known as the “Tristan Chord.”

ANSWER: Wilhelm Richard **Wagner**

[10] This Wagner piece for chamber orchestra is named after his son and was written as a birthday present for his wife Cosima. A theme from this piece would later become the Brünnhilde-sung passage “Ewig war ich” [“**AY-vig varr ish**”] in the Ring Cycle.

ANSWER: ***Siegfried Idyll***

<YFL Music and Opera>

3. The ring-opening form of these reactions has a reactive center as a terminal end. For 10 points each:

[10] Name this kind of polymerization in which unsaturated monomers are added to the main branch’s active site. Paul Flory distinguished between step-growth polymerization and this kind of polymerization.

ANSWER: **chain**-growth polymerization [or **chain** polymerization]

[10] Ziegler–Natta catalysts are used in the polymerization of these compounds. The simplest of these compounds is ethylene, and these compounds contain a carbon–carbon double bond.

ANSWER: **alkenes** [or **olefins**]

[10] The Carothers’ [“**ker-OTHERS**”] equation for calculating degree of polymerization denotes the extent of reaction by this letter, which equals $N - N_0$ divided by N_0 . It represents the probability of a randomly chosen functional group having reacted already.

ANSWER: **p**

<DM Chemistry>

4. Hrant Dink was assassinated for his opposition to his country's denial of the historicity of this event. For 10 points each:

[10] Name this event that was carried out by the government of Minister of War Enver Pasha. Discussion of this event is forbidden by a country's Article 301.

ANSWER: **Armenian Genocide** [or the **Armenian Massacre** of 1915; or the **Armenian Holocaust**; or the **Medz Yegern**]

[10] The Armenian Genocide was carried out in this empire, which later became modern-day Turkey. This "sick man of Europe" was led by the "Three Pashas" during World War I.

ANSWER: **Ottoman** Empire [accept **Osmanli** Imparatorlugu or **Osmanli** Devleti]

[10] Prior to the genocide, Armenians were blamed for Enver Pasha's defeat at the Battle of Sarikamish, a clash in the campaign of World War I fought in this region. Shamil led an Imamate based in this region that fought against the Russians in the 19th century.

ANSWER: **Caucasus** [or the **Caucasian** region]

<JO World History>

5. This writer included four one-line poems about chicken in her collection *Tender Buttons*. For 10 points each:

[10] Name this author of *The Autobiography of Alice B. Toklas*. She treated her sexuality explicitly in the autobiographical work *Quod Erat Demonstrandum*.

ANSWER: Gertrude **Stein**

[10] Gertrude Stein mentored this American author of *The Sun Also Rises* and a novella about the fisherman Santiago, *The Old Man and the Sea*.

ANSWER: Ernest **Hemingway**

[10] This Hemingway memoir about his time in Paris during the 1920s depicts locations such as Gertrude Stein's salons and James Joyce's favorite oyster cafe.

ANSWER: *A **Moveable Feast***

<OL American Literature>

6. Einstein called this phenomenon "spooky action at a distance." For 10 points each:

[10] Name this quantum phenomenon in which the quantum states of two particles separated by large distances are still correlated. It is posited to be an explanation for the "arrow of time," since correlation increases with time.

ANSWER: quantum **entanglement**

[10] Quantum entanglement occurs at speeds greater than the speed of light. That fact was used by Einstein to develop this paradox to prove that quantum mechanics and the Copenhagen interpretation were incomplete.

ANSWER: **EPR** paradox [or **Einstein–Podolsky–Rosen** paradox]

[10] Bell's theorem, which discussed the consequences of entanglement on hidden variables, can be proven using this inequality, which states that a quantity denoted S is less than or equal to 2. In this inequality, S is calculated using four quantum correlations of detectors.

ANSWER: **CHSH** inequality

<DM Physics>

7. The study of this process and its effects on the body is known as gelotology. For 10 points each:

[10] Name this physical reaction, often to humor, in which the diaphragm contracts. It has been shown to reduce stress hormone levels and encourage proliferation of T cells.

ANSWER: **laughter** [accept equivalents; prompt on specific types]

[10] Laughing stimulates production of these peptide hormones from the pituitary gland. These hormones come in alpha, beta, and gamma variants, and their principal function, emulated by opioids, is to reduce transmission of pain.

ANSWER: **endorphins**

[10] A lowered threshold for the reaction of laughing or crying can lead to this phenomenon, a secondary symptom suffered by 49 percent of ALS sufferers. It is named for its similarity to symptoms of a lesion in the medulla oblongata.

ANSWER: **pseudobulbar affect** [or **PBA**]

<DM Biology>

8. Answer the following about paintings that depict picnics, for 10 points each.

[10] In this Edouard Manet painting, two clothed men and a nude woman have a picnic while a woman bends over in a stream in the background. It famously received mixed reviews when shown at the Salon des Refusés.

ANSWER: *The **Luncheon on the Grass*** [or *The **Picnic***; or *Le **Dejeuner Sur L'Herbe***; or *The **Bath***; or *Le **Bain***]

[10] This artist, who claimed that “I would still prefer to sit under a tree with a picnic basket rather than under a gas pump,” drew on Manet’s *Luncheon on the Grass* for his work *The White Tree*. This artist fused Surrealism and his distinct style in works such as *Amerind Landscape*.

ANSWER: Roy **Lichtenstein**

[10] Gods picnic on the grass as Priapus tries to rape Lotis in Giovanni Bellini’s *The Feast of the Gods*, a painting whose landscapes were painted by this man. This Venetian artist drew on his teacher Giorgione’s *Sleeping Venus* for his own painting of a nude woman.

ANSWER: **Titian** [or **Tiziano**; or Tiziano **Vecelli**; or Tiziano **Vecello**]

<YFL Painting and Sculpture>

9. Answer the following about Argentinian geography, for 10 points each.

[10] One glacial system around this mountain is the Polish Glacier. It is the tallest mountain in both the Western and Southern Hemispheres.

ANSWER: Mount **Aconcagua**

[10] Along with Uruguay and Brazil, these lowlands are located in Argentina. This region is located near the Paraguay, Uruguay, and Parana Rivers, and was herded by cowboys known as gauchos.

ANSWER: The **Pampas**

[10] Argentina also contains this salt lake, which contains dinosaur fossils. In contrast to Aconcagua, it is the lowest point in both the Western and Southern Hemispheres.

ANSWER: **Laguna del Carbón**

<AN Geography>

10. One of this man's novels chronicles a "fortunate mistress" during Charles I's reign. For 10 points each:

[10] Name this author of *Roxana*. A worshipper of the god Benamuckee is converted to Christianity by the title shipwrecked Englishman in this author's *Robinson Crusoe*.

ANSWER: Daniel **Defoe** [or Daniel **Foe**]

[10] This Daniel Defoe novel sees the title character marry five men, including her half-brother and her "Lancashire husband." This novel's subtitle claims that its protagonist dies "a penitent."

ANSWER: *The Fortunes and Misfortunes of the Famous **Moll Flanders***

[10] A genre of novels named for this place includes *Moll Flanders*, Edward Bulwer-Lytton's *Eugene Aram*, and Harrison Ainsworth's *Jack Sheppard*. Residents of this location were profiled in *the Malefactor's Bloody Register*.

ANSWER: **Newgate** Prison [accept the **Newgate** Novels]

<OL British Literature>

11. An artist of this movement transformed part of his family house in Hanover into a constantly-changing installation. For 10 points each:

[10] Name this avant-garde art movement that developed in Europe in the 1910s, whose nonsense-word name supposedly derives from the French word for "hobbyhorse."

ANSWER: **Dada**

[10] This Dada artist created the aforementioned Merzbau installation, which was destroyed in an Allied bombing raid. He also used the term "Merz" for a periodical and a barn in the Lake District.

ANSWER: Kurt **Schwitters** ["SHVIT-tuhs"]

[10] Many Schwitters works titled Merz, such as "Merz Picture 32A: The Cherry Picture" are in this form. Hannah Hoch and other Berlin Dadaists created works of this genre called "photomontages."

ANSWER: **collages**

<JB Other Arts (Misc. Visual)>

12. He Xian'gu ["huh sh'yen-goo"] ate powdered mica and became immortal because of one of these phenomena. For 10 points each:

[10] Name these things, one of which Lü Dongbin experienced while cooking a yellow millet fish.

ANSWER: **dreams**

[10] He Xian'gu and Lü Dongbin are members of this group of deities, along with Zhongli Quan ["jong-lee ch'wen"] and Iron-Crutch Li. Members of this group of deities possess people in a game played during the Mid-Autumn Festival.

ANSWER: **Eight Immortals**

[10] The Eight Immortals are revered in this Chinese religion that emphasizes *wu wei*, holds the Three Jewels as virtues, and uses the yin-yang symbol.

ANSWER: **Taoism** [or **Daoism**]

<YFL Mythology>

13. Fermat's little theorem states that for all integers a and primes p , a -to-the- p and a are equal under this operation with respect to p . For 10 points each:

[10] Name this operation from number theory that outputs the remainder when one number is divided by another, often visualized as "wrap-around" or "clock" arithmetic.

ANSWER: **modulus** [or **modulo**; accept **modular** arithmetic]

[10] According to this man's generalization of Fermat's little theorem, a number a raised to a certain function of n is $1 \pmod n$. That function named for this man outputs the number of integers less than and coprime to some given integer.

ANSWER: Leonhard **Euler** [accept **Euler's** theorem or **Euler's** totient function]

[10] A number a is said to be this term modulo n if its powers generate all coprime residues mod n . Fermat's little theorem can be proven by using the fact that all primes p have at least one of these.

ANSWER: **primitive root** [accept **primitive element**; prompt on partial answer; prompt on **generator**]

<DM Math>

14. After Abbasid caliph al-Ma'mun adopted the Mu'tazila doctrine on this issue, he had ibn Hanbal executed for his traditionalist stance on it. For 10 points each:

[10] Name this point of dispute in Islamic theology that concerns whether a certain entity is co-eternal with Allah or if it was brought into existence by Him.

ANSWER: the (un)**createdness** of the **Qur'an** [accept any answers indicating the question of whether the **Qur'an** was (un)**created**]

[10] The body that al-Ma'mun created to ensure adherence with the createdness doctrine, known as the mihna, is often considered the Islamic analogue of this European institution. In Spain, it condemned heretics to *auto-da-fés*.

ANSWER: the **Inquisition**

[10] The century after ibn Hanbal's death, the Abbasid government had a member of this group, Al-Hallaj, executed for proclaiming "I am the Truth." The Mevlevi sect of this group uses dance as a form of *dhikr* ["**thicker**"].

ANSWER: **Sufis**

<JB Religion>

15. An actor in this play portraying Leo Gala questions why he has to wear a chef's hat while beating eggs. For 10 points each:

[10] Name this play put on by the Manager and the Leading Man. A rehearsal of this play is interrupted by a man claiming that life is "full of infinite absurdities" after his step-daughter asks to be a part of this production.

ANSWER: **Mixing It Up** [or *The **Rules of the Game***; or *Il **giuoco delle parti***; prompt on, but DO NOT REVEAL, the play from *Six Characters in Search of an Author*]

[10] *Mixing It Up* is performed in this play, which ends with the Manager lamenting that he's lost a full day of rehearsal. One of this play's title characters, a boy, shoots himself over the drowning of a child at its end.

ANSWER: **Six Characters in Search of an Author** [or ***Sei personaggi in cerca d'autore***]

[10] *Six Characters in Search of an Author* was written in this language by Luigi Pirandello. Dario Fo and Ugo Betti were other 20th-century dramatists who wrote in this language.

ANSWER: **Italian**

<OL European Literature>

16. A group of philosophers from this city developed a philosophy of logical positivism. For 10 points each:

[10] Name this city home to the philosophers Rudolf Carnap and Moritz Schlick.

ANSWER: **Vienna**

[10] The Vienna Circle was influenced by their discussions of a book by this philosopher that opens, “the world is everything that is the case.” That book by this eccentric Austrian thinker is his *Tractatus Logico-Philosophicus*.

ANSWER: Ludwig **Wittgenstein**

[10] In the *Tractatus*, Wittgenstein addresses the paradox of his claims about the nonsensical nature of propositions outside of the natural sciences by comparing the book to one of these objects that must be thrown away after it is used.

ANSWER: **ladder**

<YFL Philosophy>

17. This country’s Field Marshall Johan Banér signed the Treaty of Barwalde, which obtained French funding for its army. For 10 points each:

[10] Name this empire that surprisingly allied with Catholic France during the later stages of the Thirty Years’ War, against the advice of its minister Oxenstierna [“ook-sen-SHWANN-ah”].

ANSWER: **Swedish** Empire [or Kingdom of **Sweden**]

[10] This French statesman’s agents organized the Franco-Swedish alliance. This “Red Eminence” served as the chief minister of Louis XIII and tutored his successor, Cardinal Mazarin [“mah-zah-RAN”].

ANSWER: Cardinal **Richelieu** [or Armand Jean du **Plessis**, Duke of Richelieu]

[10] Richelieu supported Axel Oxenstierna’s efforts to create this league, an alliance between Sweden, France, and the German Protestant Princes. This league was crushed by the Catholics at the first Battle of Nördlingen.

ANSWER: **Heilbronn** League

<GP European History>

18. Answer the following about minimalist composer Steve Reich’s influence on pop music, for 10 points each.

[10] This indie folk singer-songwriter imitated the pulsing style of Reich’s *Music for 18 Musicians* on “Out Of Egypt, Into The Great Laugh Of Mankind,” the closing track of an album that includes “Casimir Pulaski Day,” *Illinoise*.

ANSWER: Sufjan **Stevens**

[10] Along with Nick Drake, Steve Reich is one of the two dedicatees of this 1986 song by The Dream Academy, whose title refers to Nick Laird-Clowes’s time in the city of Newcastle.

ANSWER: “**Life in a Northern Town**”

[10] After hearing *Music for 18 Musicians* in Berlin in 1976, this singer featured its influence in the instrumental track “Weeping Wall.” This creator of Ziggy Stardust released *Blackstar* two days before his 2016 death.

ANSWER: David **Bowie**

<JB Trash>

19. This man was known by the nickname “Toom Tabard,” meaning “empty coat,” due to an incident in which his country’s arms were torn off his coat. For 10 points each:

[10] Name this man who was made king of his country by Edward I of England. He was forced to abdicate in the wake of an English invasion, though his son Edward would later try to claim the Scottish throne.

ANSWER: John **Balliol** [prompt on **John**]

[10] John Balliol was made king of Scotland over this man, who later took the throne of Scotland after killing his rival John Comyn. His forces defeated the English at the Battle of Bannockburn.

ANSWER: **Robert I** [or **Robert the Bruce**; prompt on **Robert**]

[10] This rebel fought the English in the First Scottish War of Independence alongside Andrew Moray. His forces won the Battle of Stirling Bridge, but lost the Battle of Falkirk, resulting in his capture and execution by the English.

ANSWER: William **Wallace**

<GP British History>

20. In a novella, a man with this title attempts to sell the prized cock that his murdered son, Agustín, left to him. For 10 points each:

[10] Name this rank that partly titles a novella about a man waiting for a pension check. In a novel, a man with this title start and loses 32 civil wars.

ANSWER: **Colonel** [accept *No One Writes to the Colonel*; accept **Colonel** Aureliano Buendía]

[10] Colonel Aureliano Buendía appears in this novel, which begins with José Arcadio Buendía meeting the gypsy Melquíades and founding the town of Macondo.

ANSWER: ***One Hundred Years of Solitude*** [accept ***Cien años de soledad***]

[10] This Colombian magical realist author of *No One Writes to the Colonel* created the Buendía family in *One Hundred Years of Solitude*.

ANSWER: Gabriel **García Márquez**

<JO World Literature>

21. Bonds with a rating below BBB from Standard & Poor’s or a rating below Baa3 from Moody’s are known by this term. For 10 points each:

[10] Name this derogatory term for speculative, non-investment grade bonds which are issued by companies with a high risk of default.

ANSWER: **junk** bonds

[10] Many distressed debt investors buy junk bonds in order to receive equity after a company undergoes this process. In the Chapter 11 variety of this process, a company that cannot pay its debts undergoes reorganization.

ANSWER: **bankruptcy**

[10] Junk bond issuers often have high ratios of debt to this financial measure. This measure known by a six-letter acronym is a proxy for a company’s cash flows that can be used to service the company’s debts.

ANSWER: **EBITDA** [or **Earnings Before Interest, Taxes, Depreciation, and Amortization**]

<CH Social Science>