

Tossups

1. Pausanias claims that one member of this profession, an Euboean son of Crius, is the source of an alternative tradition for the name of Pythos. In the Homeric Hymn to Demeter, Demeter pretends to be Dosos, a person wronged by people in this profession. According to Apollodorus, a mistaken belief that Catreus was one of these people led his son Althaemenes to unknowingly slay him. Its not swineherding, but Eumaeus was in Sidon when these people took him to (*) Ithaca. One person demanded the right to sing one last song from some of these people and ended up being rescued from them by the dolphins that he attracted; that man was Arion. Dionysus turned some Tyrrhenian people in this profession into dolphins after using vines to fill up their boat. For 10 points, name these people who often appear in children’s stories making their captives walk the plank.
ANSWER: pirates [prompt on slavers, raiders, freebooters, robbers and equivalents]

2. One story in this book tells of a girl named Sophie who is mortally wounded in five places before Prudence convinces her husband, Melibee, to forgive the attackers; that story in this book has the same narrator as a story about a knight who prepares to battle Sir Olifaunt to win the elf-queen. One of the characters in this book wears a brooch inscribed with the Latin “Amor vincit Omnia” and is named (*) Madame Eglentyne, while another character is a red-haired man with a large wart on his nose who likes dirty jokes. A story in this book tells of Pertelote who is loved by the rooster Chanticleer, and it begins by describing a group of people departing from the Tabard Inn to visit the shrine of Thomas a Becket. For 10 points, name this book that includes stories told by a Reeve, a Merchant, and the Wife of Bath, written by Geoffrey Chaucer.
ANSWER: *The Canterbury Tales*

3. One quantity important in this technique is calculated in a linear fashion by the Van del Dool and Kratz equation. An inverse version of this technique is commonly used to measure the surface energy of solids. In a standardization method used alongside this technique, a series of n-alkanes is given an index equal to 100 times the number of carbons they have. In this technique, an inert carrier flows into a column oven attached to an autoinjector; the sample then passes into a (*) flame ionization detector. This technique, which uses a retention index named for Kovats, is commonly used before mass spectrometry of simple molecules in intro organic chemistry classes. For 10 points, name this form of chromatography in which the analyte is in a vapor phase.
ANSWER: gas chromatography [prompt on “chromatography”]

4. In a short scene set in a Cathedral in this play, an evil spirit stands behind a woman and torments her about her pregnancy while an organ plays and the chorus sings the *Dies Irae*. In the second part of this play, one character convinces the emperor to start using paper money with pictures of Simon Magus on it. One character in this work is sentenced to death after drowning her illegitimate child, but when she refuses to escape from prison, she earns salvation. In a later scene of this play, the (*) homunculus created by Wagner leads the protagonist to classical Walpurgisnacht. A poodle comes into the study of the protagonist and transforms into the antagonist at the start of this work, and the protagonist later seduces Gretchen with the help of Mephistopheles. For 10 points, name this tragedy based on a soul-selling legend by Goethe.
ANSWER: *Faust* [accept things like “*Faust: Part One*” until “second part” is read]

5. The tenth pope with this name was elected after the longest papal election in history and, during the Second Council of Lyon, promulgated the bull that created the conclave system. One pope with this name commissioned Ignazio Danti to create the Gallery of Maps, while another passed the bull *Audita tremendi* to call for the Third Crusade. The thirteenth pope of this name held a celebratory Te Deum after hearing of

the St. (*) Bartholomew's Day Massacre. One pope with this name feuded with a figure who walked in the snow barefoot to repent during the Investiture Controversy. Aloysius Lilius developed a reform promoted by another pope of this name in the bull *Inter gravissimas*, which reduced the number of leap years. For 10 points, name this papal name, one holder of which is the namesake of the modern calendar.

ANSWER: Gregory [or Gregorius]

6. This composer wrote a single-movement work in E major for 10 winds and 5 strings that, despite being called a chamber work, requires a conductor, while another of his works begins with a *pp* descending quarter, dotted-eighth, sixteenth motif in the violas and cellos, which are soon joined by the violins. In another work by this composer of the *Kammersymphonie*, after the narrator finishes speaking, the men's chorus sings the (*) *Shema Yisroel* with the orchestra. This composer wrote a work in one movement with five clear sections for string sextet, which he later re-orchestrated for string orchestra. This composer of *A Survivor from Warsaw* based that other work on a Richard Dehmel poem. For 10 points, name this Second Viennese School composer of *Transfigured Night*.

ANSWER: Arnold Schoenberg

7. These particles' creation and annihilation operators are linked to spin operators via the Holstein-Primakoff transformation. The commutator of the creation operator for these particles is equal to the Kronecker delta of the states that the operator is acting on. The degeneracy divided by an exponential minus 1 gives the expected number of these particles in a given state, in contrast with their (*) counterparts which have a plus one in the denominator. A collection of these particles will all collapse to the ground state at a low enough temperature, resulting in a new highly-degenerate form of matter. These particles include the carriers of the weak force, W and Z, as well as a particle whose associated field's symmetry breaking imparts mass. For 10 points, name these particles which have integer spin, as opposed to fermions.

ANSWER: boson

8. One ruler from this dynasty was commemorated in a monument showing him holding a sword and a cross and standing on top of a column. Another ruler was killed by ingesting arsenic-laced pea soup. The first ruler of this dynasty employed Laurentius Andrae to translate the bible into his nation's language and was advised by the Petri brothers. That ruler is the origin of the name that Michael Pascal attempted to force upon (*) Oludah Equiano. A more famous member won the Battle of Rain during his invasion of Bavaria. Two rulers of this dynasty employed foreign minister Axel Oxenstierna, and another corresponded with Rene Descartes. For 10 points, name this dynasty that included Eric XIV and Christina, and a ruler killed at the Battle of Lutzen during the Thirty Years' War, nicknamed "the Lion of the North", Gustavus Adolphus.

ANSWER: Vasa Dynasty [or Vasaatten]

9. The third place candidate in this election served as defense counsel for Shadrach Minkins, who was captured in Massachusetts. Charles J. Jenkins was the vice presidential candidate for the Union Party, which nominated Daniel Webster as its candidate. The winning VP in this election was the only US executive to take his oath on foreign soil and died of TB (*) 45 days into his term. John Hale was the Free Soil candidate, while the second-place candidate in this election ran with William Alexander Graham. The Democratic candidate ran with Rufus King and was a dark horse, while the Whig candidate commanded forces landing at Veracruz in the Mexican-American war. For 10 points, name this election in which "Old Fuss and Feathers" Winfield Scott was defeated by Franklin Pierce.

ANSWER: United States Presidential Election of 1852

10. A painter from this country drew a stand full of birds, a red-clad violinist, and jesters in court and is named Valery Jacobi. Another painter from here showed Indian rebels being blown from British guns in one

work and a huge pile of skulls in another work. Besides *Apotheosis of War*, another work from this country shows a shirtless man with a lute in his lap sitting at a table amidst a crowd, above which a few multicolored pikes are visible; that work depicts a large group of men laughing as one figure (*) writes with a white feathered pen. An artist from this country painted a youthful, fair-skinned character in the middle of a group of 11 ragged-looking men who lean forward to pull a ship. For 10 points, name this home country of Vasily Vereshchagin and Ilya Repin who painted *Bargehaulers on the Volga*.

ANSWER: Imperial Russia [or Russian Empire; do not accept “Soviet Union” or “USSR”]

11. This protein’s F57I and W64R mutants are associated with familial renal amyloidosis. The mechanism of this enzyme was solved by Volcado et al using bi-fluorinated substrates, which determined that this enzyme uses an SN2 reaction to displace its second product. The active site of this enzyme contains glutamate-35 and asparagine-52, and the mechanism of this enzyme was originally posited to have a glycosyl carbocation intermediate by David (*) Phillips. Structural studies of this enzyme often use its hen’s egg white variety. This enzyme breaks the beta-one-four linkages between N-acetylglucosamine and N-acetylmuramic acid found in peptidoglycan, and like penicillin was originally discovered by Alexander Fleming. For 10 points, name this enzyme found in milk, saliva, and tears, which breaks down bacterial cell walls.

ANSWER: lysozyme

12. With Robert Yerkes this man published *Methods of Studying Vision in Animals*. This associate of engram-hunter Karl Lashley conducted an experiment that inspired the book *Kinaesthetic and Organic Sensations*. Mary Cover Jones partially replicated an experiment performed by this man on a subject named Peter. This man conducted an experiment in which he shortened a (*) maze through which animals had been trained to run; that experiment, conducted with Harvey Carr, was called “Kerplunk.” Another experiment carried out by this man with the help of Rosalie Rayner used a steel bar and a hammer to condition the subject into fearing anything white and fluffy. For 10 points, name this behavioral psychologist who conducted the “Little Albert” experiment.

ANSWER: John Broadus Watson

13. One cathedral located in this city contains a sculpture of people emerging from a turbulent void, called *Ex Nihilo*. One installation in this city has a rock inscribed with “I hate war” and contains five waterfalls of varying size. A group of sculptures in this city includes the 12th entry of David Smith’s Cubi series, a shiny depiction of a cane-wielding man with a basket on his back entitled *Kiepenkerl*, by Jeff Koons, and “Wish Tree” by Yoko Ono; those works are found in the (*) Hirshhorn Sculpture Garden. Frederick Hart sculpted a group of three soldiers next to a monument in this city, which was designed by Maya Lin and consists of a gabbro wall with 58 thousand names carved into it. For 10 points, name this city, for which Daniel Chester French sculpted a seated president for the Lincoln Memorial.

ANSWER: Washington, D.C. [or District of Columbia]

14. This idea was dismissed by Laudan as “toothless” because it is unable to perform the “stable-cleaning” duties it for which it was posited. The “hard core” of a program is protected from this by an auxiliary belt according to the author of *Criticism and the Growth of Knowledge*. An early version of this idea can only be applied to bundles, rather than things in isolation, according to the Duhem-Quine thesis. A modified version of this idea applies it in degrees, rather than all-or-none; that is its (*) “sophisticated” version. This idea was posited as a solution to the problem of demarcation and the problem of induction. A classic example of doing this is finding a black swan. For 10 points, name this criteria that distinguishes a scientific statement from a non-scientific one by its ability to be proven wrong, expounded by Karl Popper.

ANSWER: falsifiability [accept word forms of “falsify”; prompt on “testing a hypothesis” or similar because of the Duhem-Quine clue]

15. This leader was accused of “rewriting history” by Warren Truss for talking about sometimes feeling “murderous rage” while in office. In a bizarre photo-op, this leader was photographed making a toy animal for Prince George of Cambridge. This leader’s partner was accused of being gay for working as a barber. Alan Jones said that this leader’s father had “died of (*) shame.” In a speech defending former Speaker of the House Peter Slipper, this leader called out the former opposition leader for being a misogynist. A leadership spill in June 2013 resulted in this leader being ousted by a colleague whom this leader had ousted in 2010; that colleague was former Prime Minister Kevin Rudd. For 10 points, name this former Labour Prime Minister and first female Prime Minister of Australia.

ANSWER: Julia Eileen Gillard

16. For this algorithm to be implemented efficiently, a fast union-find data structure is required, because it allows for the determination of connectivity. The complexity of the standard form of this algorithm can be reduced from $O(E \log E)$ to the mathematically equivalent $O(E \log V)$ by using properties of the logarithm. Upon initialization, this algorithm creates a (*) forest of size V and then utilizes the cut property by sorting all edges of the graph and then checking for cycles with the lowest-weight, unused edge. This algorithm differs from another that accomplishes a similar task because this algorithm works for disconnected graphs. For 10 points, name this greedy algorithm for finding the minimum spanning tree of a graph, which is more generalized than Prim’s algorithm.

ANSWER: Kruskal’s algorithm [prompt on “minimum spanning tree finding algorithm” until “minimum spanning tree” is mentioned]

17. The protagonist of one work in this language travels from Brod to Galicia under pressure from his wife, Frummet. An epistolary novel in this language describes the rebound marriage of the protagonist to Michael Somo after she divorced her physically abusive first husband, Alex Gideon. That former work in this language tells of the journey of Nuta and Reb Yudel, who is looking for dowries for his daughters. In addition to (*) *The Bridal Canopy* and a work about Ilana Brandstatter, the narrator of another work in this language fantasizes about the twin Arab boys she used to play with as a child, while in the present, the narrator, Hannah Gonen, suffers through her marriage to the title character. This is the language of the books *Black Box* and *My Michael*. For 10 points, name this language used by authors like Shmuel Agnon and Amos Oz, who is from Israel.

ANSWER: Hebrew

18. An agreement signed in this city ended the Ethiopia-Eritrea war. One agreement signed in this city was unable to settle a boundary dispute about the Shatt Al-Arab, and was unable to stop the Iran-Iraq war. One battle in this city began after a group of female militants bombed a travel agency and a milk bar. One agreement named for this city ended the (*) Iran Hostage crisis. Operation Terminal was an attack on this city, leading to the surrender of Alphonse Juin. Jacques Massu tortured several prisoners during one battle in this city, which was the subject of a Gillo Pontecorvo film. Along with Casablanca and Oran, this city was a landing site of Operation Torch. For 10 points, name this city, the capital of a nation in which the FLN kicked out the French.

ANSWER: Algiers

19. One character with this profession tells a story about how in Staten Island he had taught a married couple how to have sex after finding out that the woman was a virgin; a few days afterwards, the husband showed up and punched him in the nose. That character with this profession is absurdly proclaimed dead by Gus and Wes while he is standing right next to them, and he is later declared officially (*) dead when his name is found on the manifest of a plane crashed by McWatt, even though he is still alive. Another character with this profession marries Joyce Lanyon after his first wife, Leora Tozer, dies from a contaminated cigarette. That character of this profession is invited to the McGurk institute by his teacher, Max Gottlieb. For 10 points, name this profession of

Daneeka from *Catch-22* and Sinclair Lewis's Martin Arrowsmith.

ANSWER: doctors [or physicians]

20. **This man's second wife was the subject of John Singer Sargent's final oil portrait. With Philip Stanhope, this man was the president of the National League for Opposing Women's Suffrage. In one position, he sent the Younghusband expedition to Tibet and established the North-West Frontier Province. One of this man's daughters became the first wife of Oswald Moseley. This one-time Viceroy of India was passed over for the Prime Ministership by (*) Bonar Law, losing to Stanley Baldwin. The position of Lviv changed in the B form of one proposal made by this successor of Arthur Balfour while serving as Foreign Secretary under Lloyd George; that proposal was a border between two nations that split during the Russian Civil War. For 10 points, name this British foreign secretary who names a line that separated Soviet Russia from Poland.**

ANSWER: The Lord Curzon of Kedleston [or George Curzon, 1st Marquess Curzon of Kedleston; or The Earl Curzon of Kedleston]

TB. **This author wrote a sonnet that ends, "I am the long world's gentleman, he said, And share my bed with Capricorn and Cancer." Another poem by this author says, "I am dumb to tell the crooked rose," after describing a phenomenon "that blasts the roots of trees" and "Is my destroyer." This poet of the sonnets in "Altarwise by owl-light" also wrote a work that ends by saying, "I sang in my chains like the sea," even though "Time held me (*) green and dying." This author of *Deaths and Entrances* wrote of a time when he "was young and easy under the apple boughs" in one poem, and he also stated, "Old age should burn and rave at close of day." For 10 points, name this poet of "Fern Hill" who wrote, "Rage, rage against the dying of the light" in his "Do Not Go Gentle into That Good Night."**

ANSWER: Dylan Marlais Thomas

Bonuses

1. This thinker wrote *The Internet Age* and the *Information Age* trilogy. For 10 points each:

[10] Name this Spanish media studies theorist who according to the Social Studies Citation Index, is the most cited communications scholar from 2000 to 2012.

ANSWER: Manuel **Castells**

[10] Castells wrote a book about the rise of a society based on this concept. Modern websites such as Myspace are used to create a “social” type of this concept.

ANSWER: **networks**

[10] Castell’s work *The Internet Galaxy* is a reference to this other media studies theorist who wrote *The Gutenberg Galaxy*, classified media into hot and cold, and said “the medium is the message.”

ANSWER: Marshall **McLuhan**

2. This author analyzed the memoirs of Daniel Schreber in his *Crowds and Power*. For 10 points each:

[10] Name this author of *The Tongue Set Free* and *The Play of the Eyes* who also wrote a work in which a dwarf wants to become a chess champion and remove the “le” from his name.

ANSWER: Elias **Canetti**

[10] Besides Canetti’s *Auto-da-Fe*, a more famous auto-da-fe in literature occurs in this novel in which it is determined by the Grand Inquisitor of Portugal that the optimist Pangloss and the title character will be executed.

ANSWER: **Candide**, *ou l’Optimisme* [or **Candide**: or, *All for the Best*; or **Candide**: or, *The Optimist*; or **Candide**: or, *Optimism*]

[10] This character from *Candide* is caught having sex with Pangloss by Cunegonde. Candide later finds out that this one-time chambermaid gave Pangloss syphilis.

ANSWER: **Paquette**

3. This character promises to buy a TV to watch the World Series if his son can supply \$100, half the cost of the TV. For 10 points each:

[10] Name this man who steals money from his brother, Gabriel, and has an affair with the unseen Alberta, who dies in childbirth; this character’s wife adopts the baby who later plants seeds in the family’s yard.

ANSWER: **Troy** Maxson [prompt on “Maxson”]

[10] Troy Maxson is the main character of this play. This play ends with Jim Bono buying a refrigerator to uphold a promise he made that he would buy one when the title structure is completed.

ANSWER: **Fences**

[10] *Fences* is part of this American Author’s “Pittsburgh Cycle” which also includes *The Piano Lesson*.

ANSWER: August **Wilson**

4. During one journey, this god slept in the glove of the giant Skrymir, and he was once given a staff and a pair of gloves by the giantess Grid so he could defeat Geirrod. For 10 points each;

[10] Name this god, whose hammer Mjolnir was once stolen by the giant Thrym. He is the Norse god of thunder.

ANSWER: **Thor** [or **Donar**]

[10] Thor’s chariot is pulled by two of these animals, who have names meaning tooth-gnasher and tooth-grinder. Sometimes he kills them, roasts the meat, and resurrects them using his hammer.

ANSWER: **goats**

[10] This brother of Roskva became Thor’s servant after accidentally breaking one of the ham-bones of Thor’s goat.

ANSWER: **Thialfi**

5. The Spartan general Gylippus successfully defended this city against an Athenian expedition during the Peloponnesian War. For 10 points each:

[10] Name this home of Archimedes, who defended it against Marcellus during the Second Punic War using mirror-based heat rays and giant mechanical claws. It was the greatest Greek colony on Sicily.

ANSWER: Syracuse, Sicily

[10] This Corinthian leader killed his brother Timophanes and deposed Dionysus II, the tyrant of Syracuse. He beat a Carthaginian army at the Battle of the Crimissus and was paired with Lucius Aemilius Paullus in Plutarch's *Parallel Lives*.

ANSWER: Timoleon

[10] An earlier ruler of Syracuse, Gelon, joined Theron of Agrigento to defeat Hamilcar the Magonid at this 480 BCE battle.

ANSWER: Battle of Himera

6. This scene is followed by Azucena's singing of "Stride la vampa," which declares her desire to exact revenge on the Count. For 10 points each:

[10] Name this song from an opera. It is officially called "Vedi! Le fosche notturne spoglie."

ANSWER: the Anvil Chorus [accept "Vedi! Le fosche notturne spoglie" before read]

[10] This song from *Rigoletto* is sung by the Duke of Mantua. Its title is commonly translated as "woman is fickle."

ANSWER: "La donna e mobile"

[10] Riccardo's "Laughing Aria" appears in this other Verdi opera. In this opera, Riccardo is destined to be killed by Renato, the husband of Riccardo's beloved Amelia, after shaking Renato's hand.

ANSWER: A Masked Ball [or *Un Ballo in Maschera*]

7. This thinker believed that only "true testifiers" or those who had witnessed battle should write military history. For 10 points each:

[10] Name this literary critic who wrote on the US's "great crappiness" in *Bad, or, The Dumbing of America*. This author of the textbook *Poetic Metre and Poetic Form* wrote a biography of Kingsley Amis called *The Anti-Egoist*.

ANSWER: Paul Fussell

[10] Fussell is best known for a 1975 work positing that the main cultural product of this war in "Modern Memory" is a profound sense of irony resulting from the brutality experienced by men like Wilfred Owen.

ANSWER: *The Great War and Modern Memory* [or First World War; or World War One]

[10] Fussell wrote an essay thanking God for a device first used in anger in this city, since it saved hundreds of thousands of lives. John Hersey wrote about the aftermath of that action in this city.

ANSWER: Hiroshima [do not accept "Nagasaki"]

8. Friedrich Reinitzer observed the first of these materials to be discovered, cholesteryl benzoate, in 1888. For 10 points each:

[10] Name this class of materials, which consist of polarizable rod-like molecules that exhibit local alignment but no long-range order. They generally have order parameters between 0.3 and 0.9.

ANSWER: liquid crystals

[10] Liquid crystals can exist in various mesophases, including this one, in which molecules are aligned with one another but not arranged in a regular order. LCD screens use this form of liquid crystal.

ANSWER: nematic liquid crystal

[10] In the presence of an electric field, liquid crystal particles often act as these objects, in which equal and opposite charges are separated by some distance. Their namesake "moments" are measured in debyes.

ANSWER: dipoles

9. This artist made 14 prints of prisons with elaborate staircases and torture devices called the *carceri*. For 10 points each:

[10] Name this *vedutisti* artist who studied under Vasi and is famous for his prints or *vedute* of architecture such as the Pyramid of Cestius and the Arch of Trajan.

ANSWER: Giovanni Battista **Piranesi**

[10] This other *vedutisti* painted such works as *The Stonemason's Yard*. This Italian is best known for paintings depicting the Grand Canal, St. Mark's Square, and the Doge's Palace in his scenes of Venice.

ANSWER: **Canaletto** [**Giovanni Antonio Canal**; prompt on "Canal"]

[10] Canaletto was inspired by Panini in this city. Piranesi won fame for prints of landmarks in this city such as the Pyramid of Cestius, the Santa Maria Maggiore, the Pantheon, and the buildings of the ancient Forum.

ANSWER: **Rome**, Italy [antiprompt on "Vatican City," because many Roman landmarks are owned by the Church]

10. This company bribed Rajiv Gandhi's government to supply the Indian Army's 155 mm howitzer. For 10 points each:

[10] Name this historical arms company whose assets are now owned by BAE systems and Saab. Its namesake 40 mm gun was widely used during the Second World War.

ANSWER: AB **Bofors** [or Aktiebolaget **Bofors**-Gullspång; or AB **Bofors** Nobelkrut; or BAE Systems **Bofors**; or Saab **Bofors** Dynamics]

[10] The Bofors 40 mm gun was an example of this type of weapon, just like the original version of the German *Flak* 88 mm cannons. They're pretty good at shooting down planes.

ANSWER: **anti-aircraft** artillery [or **aa** guns; or **ack-ack** cannon; or **flak** before it is read; prompt on "artillery," "cannon," "gun," etc.]

[10] Allied anti-aircraft guns would primarily be targeted at fighter planes made by this German company, whose Bf 109 was a mainstay in the *Luftwaffe*. Its Me 262 was the world's first jet fighter.

ANSWER: **Messerschmitt** AG

11. The structure of these entities can be explained by the existence of quasi-static standing density waves according to the Lin-Shu theory, and they have a supermassive black hole at the center of their bulge. For 10 points each:

[10] Name this type of galaxy which occupies the top and bottom branches of the Hubble Tuning Fork diagram. The Milky Way is one example of this type of galaxy.

ANSWER: **spiral** galaxy

[10] The supermassive black hole at the center of the Milky Way is the so-called A-star radio source found in this constellation.

ANSWER: **Sagittarius**

[10] Along with Eggen and Lynden-Bell, this astronomer posited that the Milky Way originated with the collapse of one big cloud. This American also discovered the first quasar and made the first reasonably accurate measurement of the Hubble parameter.

ANSWER: Allan Rex **Sandage**

12. The arguments in this work are contrasted with Mill and Sidgwick in an article by GEM Anscombe about the "modern" incarnation of its discipline. For 10 points each:

[10] Name this philosophical work, which states that the highest goal of humanity is *eudemonia*. This book states that a virtuous character is necessary for happiness.

ANSWER: **Nicomachean Ethics**

[10] This philosopher and author of the *Metaphysics* and the *Organon* wrote *Nicomachean Ethics*, naming it after his son.

ANSWER: **Aristotle**

[10] This word, which is sometimes translated as “possession,” is the name Aristotle gives to stable dispositions that the soul can have, like wisdom, intellect, and knowledge.

ANSWER: **hexis**

13. This event took place in response to the patricide depicted in a certain work, and was partially inflamed by Sinn Féin leader Arthur Griffith. For 10 points each:

[10] Name this event at the Abbey Theater in 1907 that protested the premiere of a play in which Christy beats his father to impress townspeople.

ANSWER: “**Playboy Riots**” [accept anything indicating a **riot** or **protest** at the premiere of *The Playboy of the Western World*]

[10] Christy Mahon beats his father in order to impress this character. Widow Quin warns Christy about her when Christy begins to fall for this daughter of the pub-owner Michael.

ANSWER: **Pegeen** Mike Flaherty [or **Margaret** Flaherty; prompt on “Flaherty”]

[10] This author of *The Playboy of the Western World* also wrote *The Well of the Saints* and *Riders to the Sea*.

ANSWER: Edmund John Millington **Synge**

14. This mechanism allows for the creation of several different isoforms of a given protein. For 10 points each:

[10] Name this phenomenon by which introns are removed from a pre-mRNA transcript, just leaving the exons to be expressed. This mechanism gives an explanation for why humans have fewer genes than once thought.

ANSWER: **splicing**

[10] Splicing is catalyzed by the spliceosome, which consists of these small complexes of RNA and proteins. They are named U1, U2, U4, U5, and U6.

ANSWER: **snRNP** [or **small nuclear ribonucleic particles** or **small nuclear ribonucleoproteins**]

[10] These are sites in the genome which are only one mutation away from serving as splice sites. Mutations in these sites can result in the removal of an exon.

ANSWER: **cryptic** splice site

15. This reaction takes a diene and a dienophile and combines them to form a cyclohexene derivative. For 10 points each:

[10] Name this pericyclic reaction named for a pair of German chemists.

ANSWER: **Diels-Alder**

[10] The substituents in the Diels-Alder reaction’s transition state often adopt this conformation, in which the electron-withdrawing groups on the dienophile are pointing towards and are underneath the diene.

ANSWER: **endo**

[10] Reacting this two-carbon compound with 1,3 butadiene creates 1,4-cyclohexadiene.

ANSWER: **ethyne** [or **acetylene**]

16. Francisco Guterres was one president of this nation, whose politics is dominated by the leftist FRETILIN. For 10 points each:

[10] Name this country that gained independence in 2002. Noam Chomsky often criticizes US involvement in an invasion of this nation which included the Santa Cruz massacre.

ANSWER: **East Timor** [or Democratic Republic of **Timor-Leste**; or Republica Democratica de **Timor-Leste**; or Republika Demokratika **Timor-Leste**; do not prompt on “Timor”]

[10] This nation once overthrew a FRETILIN-led government in East Timor during the reign of Suharto.

ANSWER: Republic of **Indonesia** [*Republik Indonesia*]

[10] This country led the UN Peacekeeping Force that landed in East Timor in 1999 after the independence referendum. Said force was called INTERFET.

ANSWER: Commonwealth of **Australia**

17. Answer the following about authors who were born in the Caribbean. For 10 points each:

[10] This Saint Lucian author wrote the recent prize-winning poetry collection *White Egrets* as well as the play *Dream on Monkey Mountain* and the epic poem *Omeros*.

ANSWER: Derek Alton **Walcott**

[10] This other Caribbean author wrote of Ganesh Ramsumair in *The Mystic Masseur* and described Bogart and Popo, two of the residents of the title road in *Miguel Street*.

ANSWER: Vidiadhar Surajprasad **Naipaul**

[10] This novel by V. S. Naipaul tells of the English homosexual Bobby who goes on an increasingly violent road trip with Linda, during which he gets beaten at an army checkpoint.

ANSWER: **In a Free State**

18. This man moved to Monterey in 1770, and he once asked for the removal of Pedro Fages after presenting 32 charges against him to Viceroy Ursula. For 10 points each:

[10] Name this Spanish Friar and member of an expedition led by Gaspar de Portola, who founded a series of 21 missions along the west coast of the future United States.

ANSWER: Junipero **Serra** [or Miquel Joseph **Serra**]

[10] Serra's Spanish missions were founded in the land that later became this state. One precursor to this state was the Bear Flag Republic, and its governors have included Pat Brown and Ronald Reagan.

ANSWER: **California**

[10] In other California history, a pair of brothers with this surname bombed the LA times building. A government official with this name led the Whiz Kids and later became president of the World Bank.

ANSWER: **McNamara**

19. One section of this work is divided into six sections, including Zeraim, Moed, and Nashaim, and the Minor Tractates are considered part of this work. For 10 points each:

[10] Name this text of Jewish law that consists of the Mishneh and the Gemara.

ANSWER: **Talmud**

[10] This French rabbi authored a commentary on the Talmud, which is written in his namesake script in the margins of most editions of the text.

ANSWER: **Rashi** [or Shlomo **Yitzchaki**; or Salomon **Isaacides**]

[10] This is the general name for commentaries on the Talmud, which are usually included opposite Rashi's notes. An early writer of them was Judah ben Nasi, Rashi's son-in-law.

ANSWER: **Tosafot**

20. This composer of the motet collection *Cantiones sacrae* was mentored by the composer of the forty-part *Spem in alium*. For 10 points each:

[10] Name this Virginalist composer who collected 42 keyboard works in *My Ladye Nevell's Booke*.

ANSWER: William **Byrd**

[10] William Byrd was mentored by Thomas Tallis, who wrote a melody that served as the basis for a fantasia by this more recent composer. This man also wrote *The Lark Ascending*.

ANSWER: Ralph **Vaughan Williams**

[10] This other old-school composer wrote the motet *Nuper rosarum flores* for the consecration of the Florence cathedral. He was the foremost composer of the Burgundian School.

ANSWER: Guillaume **Dufay**