

Spring Novice (April 17th, 2021)

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Packet 3

1. **Ascanio Arosemena was the first of this country's martyrs who died in a 1964 riot that resulted in the tearing down of the "Fence of Shame." Scotland's 1707 union with England was partly due to the financially devastating failure of the New Caledonia colony in this modern-day country. Jimmy Carter negotiated two treaties with this country's leader Omar Torrijos that determined the resolution of a (*) 99-year lease. The U.S. signed the Hay-Bunau-Varilla Treaty with this country after intervening for its independence from Colombia, which allowed a large construction project to begin. For 10 points, which country in 1999 regained control of the canal bisecting the Americas?**

ANSWER: Republic of Panama [or República de Panamá]

<MP, History - World History>

2. **The iodoform test detects the methyl type of compounds with this functional group. These functional groups tautomerize into enols or may instead deprotonate into enolate ions. Mixing this functional group with a solution of sodium hydroxide, ammonia, and silver nitrate fails to produce a "silver mirror." (*) Oxidizing secondary alcohols will yield this functional group, whereas oxidizing primary alcohols will instead yield aldehydes. For 10 points, name these compounds that contain a carbonyl group bonded to two carbon chains, the simplest of which is acetone.**

ANSWER: ketones [prompt on carbonyls]

<SF, Science - Chemistry>

3. **This state's capitol building is known as the "Roundhouse" and is designed to represent the Zia sun symbol. Oil and gas drilling centered around this non-Texas state's share of the Permian Basin was a key issue in the 2020 victory of Republican Yvette Herrell over Democratic Congresswoman Xochitl ("so-CHEEL") Torres Small, who worked for this state's former Senator Tom (*) Udall. Laguna Pueblo member Deb Haaland represented a Congressional seat in this state before being appointed by Joe Biden as the current Secretary of the Interior. For 10 points, name this Southwestern state where Governor Michelle Lujan Grisham governs from Santa Fe.**

ANSWER: New Mexico

<CC, The World - Current Events>

4. **A comedy film about a futuristic version of this city was filmed on an enormous set nicknamed "Tataville." In another movie set in this city, the protagonist's mother is killed when a tourist jumps off a building and lands on top of her. This city is the setting of *Playtime*, as well as a short film in which a sentient red balloon follows a boy to school. In a film set in this city, the protagonist attempts to return a box of (*) childhood toys. *The Rules of the Game* is set in this city, along with a musical film starring Gene Kelly as the namesake American in this city. For 10 points, identify this city which is the setting of *Amelie*, as well as many films in the French New Wave.**

ANSWER: Paris [prompt on Montmartre with "what city is that in?"]

<CB, Arts - Other Arts - Film>

5. The eight “cardinal” examples of these things are the most extremely located examples of these entities. These entities can be classified as “tense” or “lax” depending on their length. In languages like Korean, these entities become more similar to one another when found in the same word, which is a process known as their (*) “harmony”. The “Northern Cities” shift involves the raising of these things. These sounds are defined based on backness, roundness, and height and are frequently found as the nucleus of syllables. Two of these entities make up a diphthong. For 10 points, name these sounds often contrasted with consonants.

ANSWER: vowels

<CA, Social Science - Other Social Science>

6. In this novel, the narrator imagines “a million moths” loosed over “swan-neck shadows” while listening to a music box at a junk store. A character in this novel with the epithet “queen of cats” is the narrator’s friend until “next Tuesday.” In this novel, Meme (“meh-may”) Ortiz breaks both his arms in the First Annual Tarzan Jumping Contest. The narrator of this novel wishes to change her name to “Maritza” or (*) “Zeze the X.” In this novel, the narrator plays with her friends Rachel and Lucy and sister Nenny in a Chicago neighborhood. For 10 points, name this novel composed of vignettes narrated by Esperanza Cordero, written by Sandra Cisneros.

ANSWER: *The House on Mango Street*

<WO, Literature - Long Fiction>

7. A kit sold by New England Biolabs induces one of these events in a “site-directed” manner. One type of these events can lead to the retention of the exon junction complex and activation of NMD. The neutral type of these events forms the basis of molecular clocks. When these events lower the fitness of an organism, they are known as (*) deleterious. These events are minimized by the proofreading activity of high-fidelity DNA polymerases. One type of these events involves an insertion or deletion that shifts the reading frame. For 10 points, name these events with frameshift and point varieties that involve irreversibly changing the DNA sequence.

ANSWER: mutations [accept specific mutations]

<RC, Science - Biology>

8. A trumpet fanfare on a long-long-short-long rhythm opens the fourth movement of a G major symphony by this composer. This composer’s first symphony is named for the bells in his hometown of Zlonice (“ZLO-neets”), while his last symphony was inspired in part by *The Song of* (*) *Hiawatha*. That symphony’s most famous theme, an English horn solo in its *Largo* second movement, was inspired by this composer’s student Harry Burleigh’s renditions of African-American folk spirituals. For 10 points, the E minor ninth symphony of what Czech composer is titled “From the New World?”

ANSWER: Antonin Leopold Dvořák (“duh-vor-JAHK”)

<JC, Arts - Music>

9. In a novelization of this play set in Des Moines, Iowa, a jar of poisoned sausages prepared by Ginny Cook parallels this play’s end, in which a poisoned character says “Jesters do oft prove prophets” to her sister during a quarrel over their shared love interest. A character’s repeated response of “nothing” in this play enrages her father who later shouts “Blow, winds, and crack your cheeks!” in a (*) storm. In this play’s subplot, Tom O’Bedlam is the disguise of Edgar, who kills his illegitimate brother Edmund in a duel. For ten points, name this Shakespearean tragedy in which the title monarch attempts to divide his kingdom between his daughters Goneril, Regan, and Cordelia.

ANSWER: *King Lear* (The first clue references *A Thousand Acres* by Jane Smiley.)

<AL, Literature - Drama>

10. A president described one of these places as like “a great solemn cathedral.” Following the great San Francisco earthquake, city leaders pushed for a construction project named after Michael O’Shaughnessy in one of these places outside the city. A three-day trip to one of these places convinced (*) Teddy Roosevelt to

place that one of these places under federal control. Congress built a dam through the Hetch Hetchy Valley in one of these places, much to the distaste of John Muir and the Sierra Club. For 10 points, name these places governed by a namesake government service, such as Joshua Tree and Yosemite.

ANSWER: US **National Parks** [accept **Yosemite** National Park; accept **valley** or **Yosemite Valley** before "valley"; accept **Hetch Hetchy Valley** before mention; prompt on **parks**]

<JD, History - American History>

11. **An athlete from this country defeated Michael Johnson in a 150-meter race billed as determining the "world's fastest man." Penny Oleksiak won four swimming medals, including the 100-meter freestyle gold, for this country at the 2016 Olympics. This country defeated the Soviet Union in the Summit Series. Sprinters from this country won the 100-meter dash at both the 1988 and 1996 Olympics, but (*) Ben Johnson's 1988 gold was stripped due to doping. This country's ice hockey teams have won the most Olympic gold medals. For 10 points, name this home country of Donovan Bailey and Wayne Gretzky, which hosted the 2010 Winter Olympics in Vancouver.**

ANSWER: **Canada**

<AZ, Pop Culture - Sports>

(Note to moderator: read over the answerline before reading the question.)

12. **These people are prohibited from traveling during the three months of *Vassa*. According to regulations laid out in the *Vinaya*, the term *samanera* is used for a novice training to become one of these people. The community of these people is called the *Sangha* ("SUNG-guh"). These people follow rules from the *Patimokkha* if they are part of the (*) Theravada school. *Kasaya* is the term for these people's robes, in reference to a brown or saffron dye, although common colors for their robes also include red and orange. A group of these people developed the Shaolin style of kung fu. For 10 points, name these Buddhist ascetics who may live in Zen temples.**

ANSWER: Buddhist **monks** [accept warrior **monks**; accept **bhikkhus**, **bhiksus**, **bhikkhunis**, or **bhiksunis**; accept "priests" or "nuns" in place of "monks"; accept specific schools like "Mahayana" or "Theravada" in place of "Buddhist" before "Theravada"; accept **samaneras**, **samaneris**, **sramaneras**, or **sramaneris** before "samanera," accept **sangha** before mention; prompt on **Buddhists** by asking "of what profession?" before "Buddhist"]

<MP, Beliefs - Religion>

13. **Dionisio Pulido witnessed one of these geographic features appear in a cornfield outside the Mexican village of Parícutin in 1943. One of these features in the Tyrrhenian Sea is the namesake for a mild type of "Strombolian" event. Several of these geographic features in the Caribbean on islands like St. Vincent and Montserrat are named "Soufrière" after the French word for (*) sulfur. Chimborazo in Ecuador is another example of these features and has produced significant lahars composed of mud from melted ice. For 10 points, identify these geographic features where magma is expelled as lava during eruptions.**

ANSWER: **volcanoes** [accept more specific terms like **cinder cones**, **stratovolcanoes**, or **shield volcanoes** since each of those are examples in this question; prompt on **fumarole**]

<CC, The World - Geography>

14. **Hypothetical variants of these particles with symmetry-breaking mass are predicted by the seesaw mechanism. These particles are thought to be CPT-invariant, which would mean they are their own antiparticles and make them the only Majorana fermions in the Standard Model. Experiments at (*) Super-Kamiokande provided evidence that these particles oscillate between electron, muon, and tau flavors. Along with electrons, these particles are released in beta-minus decay. For 10 points, name these extremely small neutrally-charged particles that were once thought to have zero mass.**

ANSWER: **neutrinos** [accept anti**neutrinos**; prompt on Majorana **fermions** before "Majorana fermions"]

<SB, Science - Physics>

15. An Amin Maalouf novel dramatizes how an elaborately bejewelled version of this book sank aboard the *Titanic*. An archaic word for "enough" appears in a line in this book that inspired the title of Eugene O'Neill's *Ah, Wilderness!*. Another stanza in this book begins, "The Moving Finger writes; and having writ, / Moves on." A cupbearer in this collection is thought to have inspired the pen name (*) Saki. This poetry collection's description of "A Book of Verses underneath the Bough, / A Jug of Wine, a Loaf of Bread—and Thou" differs across the various editions of Edward FitzGerald's translation. For 10 points, name this set of Persian quatrains attributed to Omar Khayyám.

ANSWER: *The Rubaiyat of Omar Khayyám*

<AL, Literature - Poetry>

16. The oldest known evidence of human habitation in this country is at the Madjedbebe ("MAH-jed-beh-beh") sandstone shelter. In 2008, this country's prime minister issued an official apology in response to the "Bringing Them Home" report. A 1789 smallpox epidemic in this country's indigenous population may have been introduced by the (*) First Fleet. This country removed indigenous children from their parents and placed them with white families, creating the Stolen Generations. This country renamed a landmark to add the aboriginal name Uluru in 2002. For 10 points, name this country which was initially used as a penal colony by the British Empire.

ANSWER: Australia

<JH, History - Other History>

17. After this psychologist retired, he designed advertisements for Maxwell House that popularized the term "coffee break." A widely-spread false rumor about this psychologist claimed he was secretly fired for performing research on human sexual response. The exposure of this psychologist's affair with his graduate student Rosalie Raynor forced the end of one of his experiments. That experiment by this psychologist involved hitting a (*) steel bar with a hammer whenever the subject approached a lab rat. This psychologist conditioned a small child to fear fuzzy objects in the Little Albert experiment. For 10 points, name this American psychologist who established behaviorism.

ANSWER: John Broadus Watson

<AJJ, Social Science - Psychology>

18. This goddess was the older of the two celebrated in an all-female ceremony men were forbidden to view, called the *Thesmophoria*. This goddess and her daughter were the goddesses of the Eleusinian Mysteries. A Homeric hymn claims that this goddess, raging against Zeus, created (*) famines because Zeus was unable to find her daughter. Because this goddess's daughter ate pomegranate seeds, she was forced to spend the majority of the year in the underworld, which resulted in this goddess creating the seasons. For 10 points, name this Greek goddess and mother of Persephone who presides over the harvest.

ANSWER: Demeter [or Ceres]

<JH, Beliefs - Mythology>

19. Under the Regime of the Colonels, one of these weapons was used to destroy a university gate during the Athens Polytechnic Uprising. To stop an attempted coup, one of these weapons was used for dramatic effect by Boris Yeltsin. During the Berlin Crisis of 1961, a standoff at Checkpoint Charlie involved these weapons. The Battle of (*) Kursk was the largest engagement featuring these weapons in history. Types of these weapons include the American Abrams and the German Panzer. For 10 points, name these vehicles used to face down an unidentified man in a photo taken in Tiananmen Square.

ANSWER: tanks

<NH, History - European History>

20. **This thinker argued that clear and distinct perception can ascertain the existence of God as part of a circular argument called his "circle." This man's conclusion about the unextended nature of the mind was challenged by his long-time penpal, Princess Elisabeth of Bohemia. This philosopher noted how fire changes the visible properties of a ball of (*) wax. This thinker used modes to argue for a concept sometimes named for him, mind-body dualism. For 10 points, name this French philosopher and mathematician who wrote *Meditations on First Philosophy* and declared "I think, therefore I am."**

ANSWER: René Descartes

<CA, Beliefs- Philosophy>

21. **One artist from this movement depicted a smoke-and-ash-covered sky over Cotopaxi, while another included *Destruction and Desolation* in his series *The Course of Empire*. The latter artist stands on a ledge with William Cullen Bryant overlooking (*) mountains in another painting from this movement. Frederic Edwin Church was a member of this movement, whose members characteristically painted natural scenes like *The Ox-Bow* and *Kindred Spirits*. For 10 points, Asher Durand and Thomas Cole were members of which art movement named for a natural feature in New York?**

ANSWER: Hudson River School

<DM, Arts - Painting>

22. **During a game of "Yes and No" in this novella, a character reveals that the "disagreeable" and "savage" animal he is thinking of is his uncle. Later in this novella, another character uncovers the two children Ignorance and Want from his green robes. While visiting Fezziwig's ball, a character in this novella decides to be more generous towards his clerk Bob (*) Cratchit, who is the father of Tiny Tim. This novella's protagonist is visited by three spirits who represent his past, present, and future and the ghost of Jacob Marley. For 10 points, name this Charles Dickens novella about Ebenezer Scrooge who exclaims "Bah! Humbug!" to denounce the title holiday.**

ANSWER: A Christmas Carol

<AL, Literature - Short Fiction>

23. **This artist sang "you don't wanna see what's in my phone; it's just gonna hurt you more" on Juice WRLD's ("juice world's") posthumous single "Smile." After appearing at the AMA's with his face covered in bandages, this singer released a 2021 music video in which he seemed to have undergone a botched facial surgery. In a 2021 live performance, this artist sang into a hand-held camera while spinning around in a (*) mirrored room lined with gold lights. This artist was controversially snubbed by the Grammys for a song that claims "I can't sleep until I feel your touch." For 10 points, name this pop and R&B singer who performed "Blinding Lights" at Super Bowl LV ("fifty-five").**

ANSWER: the Weeknd [accept Abel (Makkonen) Tesfaye]

<SB, Pop Culture - Pop Music>

24. **Blind mathematician Bernard Morin described an intermediary step in the eversion of these objects. "Ricci flow with surgery" was used on one of these objects in Grigori Perelman's proof of the Poincaré conjecture, which describes these objects in 4 dimensions. The Kepler conjecture gives the maximum (*) packing density for these objects. A coordinate system named for these objects uses variables rho, phi, and theta to represent three-dimensional space. One of these objects is the boundary of any ball. Four-thirds-pi-r-cubed gives the volume of, for 10 points, what three-dimensional analogs of circles?**

ANSWER: spheres [accept 3-sphere or 2-spheres]

<DB, Science - Other Science - Math>

Bonuses

1. Name some things about short stretches of nucleic acids. For 10 points each:

[10h] DNA is synthesized non-continuously on the lagging strand in the form of these short stretches of DNA named for a Japanese scientist. These stretches of DNA are later joined together by DNA ligase.

ANSWER: **Okazaki fragments**

[10m] Pairs of these short oligonucleotides used in PCR should have melting temperatures within 5°C of each other and low complementarity to avoid forming their namesake “dimers.”

ANSWER: **primers**

[10e] This group of diseases can be diagnosed by liquid biopsies that detect fragmented DNA known as circulating tumor DNA. These diseases are characterized by unchecked cell growth and may be treated with chemotherapy.

ANSWER: **cancers** [accept any specific types of cancers]

<RC, Science - Biology>

2. The premiere of the fourth season of this TV show caused several streaming sites to crash. For 10 points each:

[10m] Name this TV show in which characters like Eren Jaeger (“YAY-gur”) and Levi Ackermann join the elite Survey Corps, which is part of Scout Regiment.

ANSWER: **Attack on Titan** [or **Shingeki no Kyojin**]

[10h] This anime distribution service was one of the first to legally release *Attack on Titan* in the US, despite previously being an illegal streaming site. In December 2020, Sony bought this website for over a billion dollars.

ANSWER: **Crunchyroll**

[10e] *Attack on Titan* was adapted from this medium. Many anime start off in the form of these Japanese graphic novels.

ANSWER: **manga**

<AJai, Pop Culture - Other Pop Culture>

3. The characteristic rhythm of this musical style performs two eighth notes so the first is twice as long as the second. For 10 points each:

[10e] Give this term, which names an “era” of jazz characterized by danceable, syncopated rhythms. Bandleader Benny Goodman was rhyingly nicknamed the “King of” this term.

ANSWER: **swing** [accept **swing** jazz; accept **swing** era; accept “King of **Swing**”]

[10h] In Benny Goodman’s most famous concert, a swing song titled for this action opens with a drum solo by Gene Krupa. That song’s title refers to this action three times.

ANSWER: **singing** [accept “**Sing**, Sing, Sing (With a Swing)”]

[10m] The singer says to “give it all that rhythm you got” in “It Don’t Mean a Thing (If It Ain’t Got That Swing),” a song written by this bandleader who collaborated with Billy Strayhorn on songs like “Take the A Train.”

ANSWER: Duke **Ellington** [or Edward Kennedy **Ellington**]

<CL, Arts - Other Arts - Jazz>

4. Shadow plays, a form of ancient folk art, use a translucent screen with these objects for storytelling. For 10 points each:

[10e] Name these objects. In Japanese *bunraku* theatre, performers dressed in black manipulate these objects with wooden rods.

ANSWER: **puppets**

[10h] Many *bunraku* plays end with one of these events. The dramatist Chikamatsu Monzaemon wrote plays titled after “love” versions of these events at Sonezaki and Amijima.

ANSWER: love **suicides** [or **shinjū**; prompt on double **suicides**]

[10m] The love suicides in Chikamatsu’s play take place in one of these locations. In *As You Like It*, Rosalind and Orlando meet in one of these locations named Arden.

ANSWER: **forests** [or **woods**; or any synonyms]

<AL, Literature - Drama>

5. Name some things related to deadly train rides, for 10 points each.

[10e] This type of weapon was utilized by members of the cult Aum Shinrikyo to target the Tokyo Metro. Use of these weapons, such as mustard gas, was banned by the 1925 Geneva Protocol after extensive use in World War I.

ANSWER: **chemical** weapons [or **biological** weapons; accept **poison** gases]

[10m] During a crash near Borzoi, one of these people allegedly saved his entire family by holding the roof of the train car up. Another one of these people was assassinated by a bomb detonated by members of the People's Will.

ANSWER: **tsars** of Russia [or **emperors of Russia** or **monarchs of Russia**; accept **Alexander II** or **Alexander III**; prompt on **emperors** or **monarchs** by asking "of which country?"]

[10h] In 1848, this railroad worker had a three-foot tamping iron driven up his skull. Despite this, he lived another 12 years and has become a case study of brain damage for psychologists and neuroscientists.

ANSWER: Phineas **Gage**

<JD, History - Other History>

6. Answer the following about who should lead a country, for 10 points each.

[10h] In the metaphor of the "ship of state," Plato proposed that only these people are fit to lead. These people are said to be the only people with enough knowledge and openness to ideas to rule.

ANSWER: **philosopher kings** [accept **philosophers**; prompt on **kings**]

[10m] In the Middle Ages, this idea was used to legitimize many absolute monarchies. Under this idea, monarchs should not be bound by earthly restrictions because they derive their legitimacy from a higher power.

ANSWER: **divine right** [or **divine right of kings** or **divine right of monarchs**; accept **a deo lex, rege lex**]

[10e] During this period, political philosophers such as John Locke promoted democratic ideals rather than the divine right of kings. This period is also called the Age of Reason for its emphasis on scientific rationalism.

ANSWER: Age of **Enlightenment**

<Ryan, Beliefs - Philosophy>

7. The mascot for the largest one of these events in the US is a 50-foot tall cowboy statue named Big Tex that was rebuilt after burning down in 2012. For 10 points each:

[10m] Name these events, which began in the late 1800s as yearly exhibitions of agricultural products. They generally attract wider audiences than related "county"-level events.

ANSWER: **state fairs** [prompt on **fairs**]

[10e] "Farm shows" on Machinery Hill and hundreds of animal births at the Miracle of Birth Center can be seen at the state fair in this state, which takes place in a suburb of this state's capital city of St. Paul.

ANSWER: **Minnesota**

[10h] At the Minnesota State Fair, the winner of the Princess Kay of the Milky Way contest gets a sculpture made of this medium. State fair sculptures of this medium initially became popular to promote refrigeration technology.

ANSWER: **butter**

<CL, The World - Geography>

8. This object was rediscovered in 1790 during urban renovations in the Zócalo. For 10 points each:

[10h] Name this object, whose central depiction is believed to be the god Tonatiuh. One interpretation of this object's use is that it was a calendar, while another is that it was a testament to the political power of Montezuma II.

ANSWER: the **sun stone** [or **Piedra de Sol**]

[10m] The sun stone was created in this city, which was legendarily founded at the site of an eagle perched on a cactus with a snake in its beak.

ANSWER: **Tenochtitlán**

[10e] Tenochtitlan was the capital of this empire, which ruled Mesoamerica until the arrival of the Spanish.

ANSWER: **Aztec** Empire
<MP, History - World History>

9. After Béla Bartók recorded and transcribed the traditional folk music of many Eastern European countries, he was deemed to be one of the founders of this discipline. For 10 points each:

[10h] Name this field of study that analyzes music through its cultural and social contexts, drawing heavily from anthropological methods.

ANSWER: **ethnomusicology** [prompt on **musicology**]

[10e] The Folkways label, which released *The Anthology of American Folk Music*, now operates as part of the Smithsonian, a museum based in this city. The National Folklife Festival takes place on the National Mall in this city.

ANSWER: **Washington**, DC [accept **DC** or **District of Columbia**]

[10m] In ethnomusicology, recording done outside a recording studio is given this name, instead meeting artists where they are. A type of "work" given this name is an analogous concept in anthropology.

ANSWER: **field** recordings [or **fieldwork**]

<DM, Social Science - Other Social Science>

10. A girl dressed in red seduces a wolf in one of this author's stories, and in another, a tiger licks the skin off a woman to reveal fur underneath. For 10 points each:

[10h] Name this author of "The Company of Wolves" and "The Tiger's Bride." This author's feminist adaptations of fairy tales are collected in *The Bloody Chamber*.

ANSWER: Angela **Carter**

[10e] "The Tiger's Bride" is adapted from this fairy tale, which ends with the transformation of the title hideous creature into a handsome prince. Disney named the title princess "Belle" for their 1991 animated version.

ANSWER: "**Beauty and the Beast**"

[10m] Angela Carter's *The Bloody Chamber* belongs to this literary genre characterized by elements of horror, romance, and the supernatural. Another work in this genre is Horace Walpole's *The Castle of Otranto*.

ANSWER: **Gothic** fiction [or **Gothic** literature; do not accept or prompt on "Southern Gothic"]

<AL, Literature - Short Fiction>

11. The Book of Malachi claims that this prophet will turn the hearts of the children to their parents and vice versa. For 10 points each:

[10m] Name this prophet who some onlookers believe will rescue Jesus during his crucifixion. In Second Kings, this man is taken up to Heaven in a chariot of fire.

ANSWER: **Elijah** [or **Elias**; or **Eliyahu**; or **Ilyas**; do not accept or prompt on "Elisha"]

[10h] Elijah appears alongside Moses during this biblical event, in which Peter, James, and John witnessed Jesus shining radiantly.

ANSWER: the **transfiguration** of Jesus

[10e] During the Transfiguration, Jesus tells the disciples that Elijah had already come, which the disciples take to refer to this man. This man is called the "voice calling in the wilderness" and baptized Jesus in the Jordan River.

ANSWER: **John** the Baptist [or **Yahya**; or **Yochanon**]

<KT, Beliefs - Religion>

12. Impedance is analogous to this quantity for AC circuits. For 10 points each:

[10e] Name this quantity, measured in ohms, that is equal to voltage divided by current.

ANSWER: electrical **resistance** [prompt on **R**; do not accept "resistivity"]

[10m] The total resistance of resistors with this configuration equals the reciprocal of the sum of the reciprocals of the resistances. The total capacitance of capacitors in this configuration equals the sum of the capacitances.

ANSWER: in **parallel**

[10h] If the resistances of three resistors are already known, then the resistance of a fourth can be found by arranging the four resistors into two legs bridged by a galvanometer in this diamond-shaped circuit configuration.

ANSWER: **Wheatstone** bridge

<DB, Science - Physics>

13. The unison opening melody of this work consists of an arpeggiated G major chord finishing on a high D. For 10 points each:

[10h] Name this chamber work by Mozart, often performed by string orchestras. Its first theme is an example of a Mannheim rocket.

ANSWER: **Serenade No. 13** for Strings in G Major, *Eine kleine Nachtmusik, K. 525* [accept any underlined portion; accept but DO NOT REVEAL *A Little Night Music* or *A Little Serenade*]

[10e] *Eine kleine Nachtmusik* is a serenade, which was typically performed at this general time of day.

ANSWER: **night** [or **evening**]

[10m] Another genre of music evocative of night is this typically single-movement form developed by John Field. Chopin wrote 21 of these solo piano works with *cantabile* melodies.

ANSWER: **nocturne** [or **notturmo**]

<JC, Arts - Music>

14. A 2014 paper by Getmansky and Zeitzoff found that voters in this country who lived within the range of rockets fired from the Gaza Strip were more likely to vote for conservative parties like Likud. For 10 points each:

[10e] Name this country that in March 2021 held its fourth national election in two years. Its governments are often formed of coalitions of smaller political parties like Yesh Atid and United Torah Judaism.

ANSWER: **Israel**

[10m] This leader of the Likud Party and current Prime Minister of Israel was indicted in November 2019 for bribery and fraud. He touted his close relationship with Donald Trump in recent elections.

ANSWER: Benjamin **Netanyahu** [or **Bibi**]

[10h] In August 2020, this country agreed to normalize relations with Israel as part of a US-brokered deal dubbed the "Abraham Accords." Bahrain, Sudan, and Morocco later followed this country in recognizing Israel.

ANSWER: **United Arab Emirates** [or **UAE**]

<CC, The World - Current Events>

15. The Supreme Court case *Prigg v. Pennsylvania* attacked the strength of these laws. For 10 points each:

[10h] Name these laws passed in many Northern states to counteract the effects of the Fugitive Slave Acts of 1793 and 1850. They guaranteed a jury trial to runaway slaves.

ANSWER: **personal liberty** laws

[10e] This 1857 Supreme Court decision ruled the Missouri Compromise unconstitutional and claimed that African Americans could not be American citizens.

ANSWER: **Dred Scott v. Sanford**

[10m] This man served as Chief Justice for the Dred Scott decision. His initial nomination to the Supreme Court was defeated, but he was renominated once the Democrats had a larger share of the Senate.

ANSWER: Roger **Taney**

<NH, History - American History>

16. In a novel by this author, the protagonist visits Mr. Antolini, whose English class was the only class he didn't fail that semester. For 10 points each:

[10e] Name this author who described Holden Caulfield's journey through New York City in *The Catcher in the Rye*.

ANSWER: Jerome David **Salinger**

[10m] In *The Catcher in the Rye*, Holden uses this word to describe characters acting superficially to influence how others think of them. Holden calls Sally Hayes the queen of those people.

ANSWER: **phony** [accept **phonies**]

[10h] Holden relates that Mr. Antolini told Holden's brother D.B. not to go to this place, but that D.B. went anyway. Holden reiterates his dislike of this place throughout *The Catcher in the Rye*.

ANSWER: **Hollywood**

<EM, Literature - Long Fiction>

17. George Akerlof's paper "The Market for Lemons" describes how asymmetries in this quantity can lead to people not selling quality used cars. For 10 points each:

[10h] Name this quantity. Asymmetries in this quantity can be reduced by signaling, where the advantaged party increases this quantity in the disadvantaged party.

ANSWER: **information** [prompt on **knowledge**]

[10e] When individuals have imperfect information in these situations, they must consider many possible opponent actions. These situations name a field of economic theory that analyzes strategy.

ANSWER: **games** [or **game theory**]

[10m] This term describes a game state where no player can act unilaterally to improve their position. It is named after a Princeton mathematician who won the 1994 Nobel Prize in Economics.

ANSWER: **Nash equilibrium**

<AJJ, Social Science - Economics>

18. When this character enters his own head, he finds himself sitting across from a female version of himself in a restaurant whose menu consists of his own name written repeatedly. For 10 points each:

[10h] Name this character, whose mind can be accessed from the abnormally low-ceilinged 7th-and-a-half floor of the Mertin-Flemmer building.

ANSWER: John Horatio **Malkovich**

[10e] *Being John Malkovich* was the first film for the screenwriter Charlie Kaufman, who directed a film titled for "Synecdoche, [this state]". In a 1933 film, planes fire at King Kong perched atop a landmark in this state.

ANSWER: **New York**

[10m] Kaufman later directed *Anomalisa*, a film using this technique. This technique involves physically moving objects between film frames, and was used in *Coraline* and the *Wallace and Gromit* series.

ANSWER: **stop motion** [accept **claymation**; prompt on **animation**]

<AJJ, Pop Culture Movies/TV>

19. According to one legend, the son of the sun god emerged from the cave of Pacaritambo carrying one of these objects. For 10 points each:

[10m] Manco Capac legendarily built a temple to the sun and founded the city of Cuzco where a golden one of these objects sank into the ground. Sun Wukong wields one of these objects that he can shrink at will.

ANSWER: **staff** [or **rod**]

[10e] Cuzco became the capital of this Andean empire that worshipped the sun disc Inti. This empire's rulers were known as Sapa and thought to be descendants of the sun.

ANSWER: **Incan Empire** [or **Tawantinsuyu**]

[10h] Viracocha, the Incan creator deity, died after performing this action. The story of Viracocha inspired Thor Heyerdahl to perform this action aboard the *Kon-Tiki*.

ANSWER: **crossing the ocean** [accept **crossing the Pacific** or **sailing the Pacific**; accept **sailing to Polynesia**]

<RR, Beliefs - Mythology>

20. A strong positive correlation between an anesthetic's potency and its value for this quantity in olive oil and water was used to support one early theory of anesthetic action. For 10 points each:

[10h] Name this quantity, the ratio of a compound's solubility in two immiscible liquids. This quantity in octanol and water is used as an indicator of a compound's lipophilicity and hydrophilicity.

ANSWER: **partition coefficient** [or **distribution coefficient**; prompt on **P** or **D**]

[10m] Immiscible liquids do not mix with each other but can form this type of mixture. Milk is an example of this type of colloid, which has two liquid phases.

ANSWER: **emulsion**

[10e] Emulsions are prone to form in one type of this piece of lab equipment used in liquid-liquid extractions. The Büchner type of this object is used in filtration, and this object has a wide top opening and narrow bottom opening.

ANSWER: **funnel**

<SF, Science - Chemistry>

21. This empire's declaration of war on Serbia marked the beginning of World War I. For 10 points each:

[10e] Name this empire whose heir Franz Ferdinand was assassinated in Sarajevo in 1914. This dual monarchy had two capitals at Vienna and Budapest.

ANSWER: **Austria-Hungary** [or **Austro-Hungarian Empire**]

[10m] This Austrian emperor created the Dual Monarchy with Hungary and reigned for over 60 years. Franz Ferdinand was the nephew and heir of this ruler until his assassination.

ANSWER: Emperor **Franz Joseph I**

[10h] In the Hungarian portion of Austria-Hungary, the government engaged in this process of cultural assimilation of non-Hungarians. Members of other ethnic groups were forced to change their names under this process.

ANSWER: **Magyarization** [or **Magyarosítás**; prompt on **Hungarization**]

<AJai, History - European History>

22. For 10 points each, answer the following about the IEEE 802 standard.

[10h] IEEE 802.3 governs this technology that transmits data in frames of at least 64 octets, often with twisted pair cables.

ANSWER: **Ethernet**

[10m] IEEE 802.11 sets the standards for this technology. A flaw in this technology's WEP encryption led to the development of WPA and later WPA-2 and WPA-3.

ANSWER: **Wi-Fi** [accept answers like **wireless internet**]

[10e] The first iteration of this technology was governed by the IEEE 802.15.1 standard. Wireless speakers and headsets are "paired" to various media devices using this colorfully-named technology.

ANSWER: **Bluetooth**

<LM, Science - Other Science - Engineering>

23. In the third stanza of this poem, the speaker introduces his "mariners" who "have toil'd, and wrought, and thought." For 10 points each:

[10m] Name this poem whose title speaker vows to drink "life to the lees." This poem by Alfred, Lord Tennyson closes with the speaker claiming he has the strength "to strive, to seek, to find, and not to yield."

ANSWER: "**Ulysses**"

[10e] Ulysses is the Latin variant of the name of this Greek hero, who returns to Ithaca after the Trojan War in an epic poem by Homer.

ANSWER: **Odysseus** [or *The Odyssey*]

[10h] Another Tennyson poem adapted from the *Odyssey* is titled for these people. These mild-mannered people consumed their namesake narcotic fruit, which would cause a traveler to forget home and sleep all day.

ANSWER: **Lotus-Eaters** [or "The **Lotus-Eaters**"]

<WO, Literature - Poetry>

24. This painting is split by a green lamppost in the middle of the canvas. For 10 points each:

[10h] Name this painting that depicts fashionably-dressed men and women walking about the title location, all with blue-gray umbrellas. It is the best-known painting of Gustave Caillebotte (“kye-BUTT”).

ANSWER: ***Paris Street; Rainy Day*** [or ***Rue de Paris, temps de pluie***]

[10e] Rather than umbrellas, many people in this French Pointillist artist's *A Sunday Afternoon on the Island of La Grande Jatte* are holding parasols to protect them from the sun.

ANSWER: Georges **Seurat**

[10m] Pierre-Auguste Renoir also depicted a *Woman with a Parasol*, this time in a garden. More famously, Renoir depicted Caillebotte and others attending one of these events on a boat.

ANSWER: **luncheons** [or ***Luncheon of the Boating Party***]

<DM, Arts - Painting>