

Pre-ICT and Nationals Open/Minnesota Open 2019 (PIANO/MO): “What about bad subject matter? Or a bad title drop, even? That could kill a tournament pretty good.”

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Packet 3 Tossups

1. **Barry Chevannes argued that understanding a movement from this country requires linking it to a “Great Revival” that included the movements of Loveism and Bedwardism. Dances like the *Dinki Mini* are central to traditions from this country like *Myalism* and *Pukumina*, which use music to ward off malevolent ghosts called *duppies*. Tropes like “gross beauty is queen in hell” from earlier texts written in this country are systematized in a text by “Gong Guru Maragh” that identifies “King Alpha and Queen Omega” and that was written by the founder of this country’s (*) Pinnacle commune. Robert Athlyi Rogers wrote a sacred text of a faith from this country that has informal divisions called “mansions,” follows a diet called the *i-tal*, centers on texts like *The Promise Key* and the *Holy Piby*, and calls its “downpressors” “Babylon.” For 10 points, name this birthplace of Rastafarianism.**

ANSWER: **Jamaica** (“King Alpha and Queen Omega” are Haile Selassie and his wife.) <JG>

2. **A 1980 study of artists who worked with *this* material includes influential chapters on “Conditions of Trade” and “The Period Eye,” and was written by Michael Baxandall. This material was used to make a 13-by-11-meter altarpiece for St. Mary’s Basilica in Kraków. A postwar artist used this material to make monochromatic sculptures such as the all-white pair *Bride and Disk* and *Groom and Disk*. This was the main material of German Renaissance sculptors such as (*) Tilman Riemenschneider. Discarded objects made of this material were assembled into sculptures like *Sky Cathedral* by Louise Nevelson. The *Isenheim Altarpiece* encloses a set of gilded and painted sculptures in this material. Donatello used this material to sculpt ragged clothing on the title emaciated woman in his *Penitent Magdalene*. For 10 points, name this material that forms the substrate of a panel painting.**

ANSWER: **wood** [accept more specific answers like white **poplar**; accept *The Linewood Sculptors of Renaissance Germany*] <JR>

3. **A drunkard in one of this author’s plays asks, “Haven’t you lived in the South long enough to know that nothing is ever anybody’s fault?” and ironically insists that “only drunkards borrow other people’s drinks.” In another of this author’s plays, a woman muses “In some way I’ve ruined your life. I’ve ruined my own” before shooting herself. Ned Crossman is told “Most of us lie to ourselves, darling, most of us” after rejecting a marriage proposal from (*) Constance Tuckerman at the end of this author’s play *The Autumn Garden*. This author wrote a play that begins with Peggy Rogers reciting the “quality of mercy” speech from *The Merchant of Venice*, before Rosalie Wells is blackmailed by Mary Tilford into accusing the schoolteachers Karen Wright and Martha Dobie of having a lesbian relationship. For 10 points, name this American author of *The Children’s Hour*.**

ANSWER: Lillian (Florence) **Hellman** <WJ>

4. H.M. McConnell pioneered the use of labelling biomolecules with reagents that have *this property*, which he used to first detect phospholipid flipping in the plasma membrane. Mims and Davies invented pulse sequences that probe samples with this property by using a microwave followed by a radio wave. Degassing is done to remove trace impurities with this property that can massively accelerate relaxation. Samples with this property have contact and pseudocontact shifts of (*) hundreds of p-p-m displacements from their normal peaks in standard proton NMR. Lanthanide shift reagents are useful mainly because they have this property. A variant of NMR for probing molecules with this property measures hyperfine coupling between nuclei and free electrons. For 10 points, name this property of radicals which enables them to be studied by E·P·R spectroscopy.

ANSWER: paramagnetic [or word forms; accept any equivalents of the phrase “having unpaired electrons”]; prompt on free radical until it is read, since triplet species are also paramagnetic; prompt on oxidizing or other word forms] <AS>

5. Archaeologists divide this culture’s sites into “Prudden units.” Anna Sofaer created the “Solstice Project” to study this culture’s astronomy after she found that it marked solstices with “sun daggers” appearing on Fajada Butte. Stephen Lekson argues that its sites lie on a single sacred longitude. This culture’s outlier sites include Wijiiji, and LIDAR [LIE-dahr] studies found that it built a seemingly useless quadruple “Great Northern Road” into barren desert. This culture’s (*) “Bonito Phase” is named for the biggest of its “Great Houses” like Casa Rinconada. It’s not on Easter Island, but Jared Diamond’s *Collapse* recounts how this culture may have left during a “Great Drought” in the 1200s for Mesa Verde. Modern groups in the U.S.’s southwest may be linked to this culture due to its houses centering on *kiva* rooms. For 10 points, name this culture that built massive structures in a New Mexico canyon.

ANSWER: Ancestral Pueblo [or Anasazi; or Chaco (Canyon) Culture; accept Mesa Verde until mentioned; prompt on the San Juan Valley] <JG>

6. A poem by this author repeats the refrain “I carry the sun in a golden cup. / The moon in a silver bag.” That poem by this author begins, “Come, let me sing into your ear; / those dancing days are gone.” A poem by this author describes three people who “sat grown quiet at the name of love” and laments a time when “it all had seemed happy, and yet we’d grown / as weary-hearted as that hollow moon.” This poet asks the reader to (*) “take down this book, / and slowly read, and dream of the soft look / your eyes had once” in his poem “When You Are Old.” One poem by this author of “Adam’s Curse” ends with the lines “I must lie down where all the ladders start / in the foul rag and bone shop of the heart,” while another concludes “How can we know the dancer from the dance?” “Among School Children” and “The Circus Animals’ Desertion” were written by—for 10 points—what Irish poet?

ANSWER: W(illiam) B(utler) Yeats <MK>

7. A book partly titled for this adjective opens by saying that, as a “hypothesis about localization of function,” the maxim “beauty is in the eye of the beholder” is “not quite right.” Linguist Ronald Langacker developed a theory of “grammar” denoted by this adjective. A center for a field named after this adjective was established at Rutgers by Zenon Pylyshyn. It’s not “intrinsic,” “extraneous,” or “germane,” but John Sweller studied how adding objects to (*) working memory causes this kind of “load.” In a 1967 book focused on information processing, Ulric Neisser launched this form of psychology. “Forced compliance” may induce a phenomenon named for this adjective in people who get one dollar, rather than twenty, to do boring tasks. James Carlsmith and Leon Festinger studied a form of “dissonance” named after—for 10 points—what adjective?

ANSWER: cognitive [accept cognitive load or cognitive grammar or cognitive science or cognitive psychology or cognitive dissonance] <MJ>

8. One of the first works from this movement begins with a spoken monologue addressed to Patty Hearst “standing there in front of the / Symbionese Liberation army flag.” Members of this movement performed on a Thames riverboat during Elizabeth II’s silver jubilee. A venue pivotal to this movement was founded to showcase “Country Bluegrass and Blues” music and had a house band led by Willy DeVille. Legs McNeil wrote an oral history of this movement titled *Please Kill Me*. Early influences on this movement included MC5 and the (*) New York Dolls, who served as the prototype for a more successful band also managed by Malcolm McLaren. Many artists from this movement played at the CBGB club, including The Dictators, Richard Hell, and Patti Smith. For 10 points, identify this subculture that emerged around 1976, inspired by music from the Ramones and the Sex Pistols.

ANSWER: punk [or punk rock] <DS>

9. In a rebellion by *this* ethnicity, a national hero legendarily disabled enemy artillery by covering a cannon’s fuse with a fur hat. The motto “They Feed and Defend” was used by a type of scythe-armed peasant soldier of this ethnicity called a *kosynier*. The “Zouaves of Death” fought in a rebellion by this ethnicity. Another rebellion by these people ended with Romuald Traugutt’s execution, and yet another was also called the “Cadets’ Revolution.” In his will, a rebel leader of this ethnicity dedicated his property to the (*) emancipation and education of American slaves, including, specifically, Thomas Jefferson’s. This ethnicity’s rebellions resulted in the “Great Emigration,” the exile of the *sybiracy*, and the defenestration of a piano owned by a composer of this ethnicity by Russian soldiers. For 10 points, name this ethnicity that rebelled under men like Tadeusz Kościuszko [tah-DAY-oosh kosh-CHOOSH-koh] to resist their country’s three Partitions.

ANSWER: Poles [or Polish people or people from Poland or the ex-Commonwealth of Poland-Lithuania; prompt on Lithuanians until “Great Emigration” and do not accept or prompt thereafter; prompt on West Slavs] <JG>

10. A lower bound corresponding to a result proven by this man is given by the Thue–Siegel–Roth theorem. This man proved that, for a real number x , there are infinitely many integers p and q such that the a minus p -over- q is smaller than one-over- q -squared. Richard Dedekind included many of his own results in an “edition” of this man’s lectures on number theory. This man names a class of (*) multiplicative functions that only equal zero for integers coprime to their modulus. This man proved that an arithmetic progression whose first term and difference are coprime contains infinitely many primes using his namesake L -functions. This formulator of the first boundary value problem gave the conditions for a function’s Fourier series to converge, and he was the first to use the fact that, if 5 items are put in 3 boxes, at least one box must have multiple items. For 10 points—who formulated the pigeonhole principle?

ANSWER: (Johann) Peter Gustav Lejeune Dirichlet [accept Dirichlet approximation theorem or Dirichlet characters or Dirichlet’s theorem on primes in arithmetic progressions or Dirichlet L -functions or Dirichlet problems] <JR>

11. This text inspired a performance form in which hundreds of topless men sit in concentric circles and wave their arms while chanting in rapid alternation. Murals depicting this text cover the outside wall of the Temple of the Emerald Buddha. An enactment of a scene from this text was developed by the German artist Walter Spies [vahl-tuh SHPEEZ] and is called *kechak*. This text is the basis for a namesake (*) *lila* or “play” performed in mid-autumn. A vernacular retelling of this text was made by Tulsidas. The dramatic forms of *kong* and *nang* grew out of a Thai retelling of this text, whose name ends in *-kien*. A “ballet” of this text is performed every full moon at the temple complex Prambanan. Most traditional Southeast Asian theater is drawn from the *Mahabharata* and—for 10 points—what other Hindu epic?

ANSWER: Ramayana [accept Ramlila or Ramakien] <JR>

12. One candidate for being this kind of thing is rejected for failing the criteria of being separable and “some this,” or *tode ti*. A passage on the *pros hen* equivocity of the term “to be” asserts that the term applies foremost to *these things*, which are uniquely able to receive contraries and undergo changes. These things are not in, and cannot be predicated of, anything. Primary and secondary kinds of these things are, respectively, particulars and universals. Each member of the other categories (*) inhere only in these things, which are the first topic discussed in the *Categories*. Properties that do not define the essence of these things are called accidents. The *Metaphysics* asserts that for a hylomorphic compound like a soul, this kind of thing *is* the form. Aristotle distinguished the “material cause” or matter from—for 10 points—what basic ontological entities?

ANSWER: substances [or ousiai; or substantia; accept more specific answers like primary substances] <SK>

13. A chapter of this book ends with the line “reading this chapter is optional but as you’ve read it you’ve read it.” Another chapter of this book ends with the narrator stuck in lake mud, hoping that park rangers will spot him by telescope. A minor character in this novel is sent by the zoo to examine a half-bird, half-fish creature before it gets eaten by its captors, and another character tells the narrator how he caught a sasquatch-like Wild Man who turned out to be a prison camp escapee. The narrator of this novel visits a home for the “solitary aged” where his landlord grandmother died after being sent for thought (*) reform, and uses his Writer’s Association card to hear folk songs from ethnic minorities like the Miao and Yi. This novel alternates chapters written in second person with first-person anecdotes from travelling in 1980s China after a lung cancer misdiagnosis. For 10 points, name this novel by Gāo Xíngjiàn [GOW sheeng-JYEHN]?

ANSWER: Soul Mountain [or Língshān] <DS>

14. A *quadruple* pendulum composed of 30 kilogram suspended test masses stabilizes *these devices*, which also use power recycling to reduce noise. Matched filtering is applied to compare measurements made by two of these devices labelled H1 and L1 of the quantity “strain, times ten to the negative 21st.” A proposed one of these devices that’s named for occupying zero area relies on a rotating loop functioning as a fiber optic gyroscope, an effect named for Georges (*) Sagnac. One of these devices composed of three satellites in an equilateral triangle will be put into heliocentric orbit in the LISA project. Light requires ten milliseconds to travel between two of these devices that have four kilometer-long arms and identified a black hole merger in 2015. For 10 points, name these devices that detect gravitational waves by LIGO [“lie”-“go”].

ANSWER: laser interferometers [or word forms; or Michelson interferometers; or Michelson-Fabry-Perot interferometers; or Sagnac interferometers; accept descriptive answers like gravitational wave detectors or gravity wave observatories or LIGO detectors only until they are read] <AS>

15. Under George W. Bush, this organization was first led by the man who vetted Dick Cheney for the vice presidential nomination, campaign advisor Joe Allbaugh. Before joining this organization, one of its leaders prosecuted claims of horse liposuction as commissioner of the International Arabian Horse Association. A head of this organization who had not completed “principal federal official” training was replaced in one capacity by Thad Allen. A March 2019 story by NPR used ZIP code data to analyze racial and income disparities in buyouts conducted by this organization, which was criticized in (*) 1992 with the comment “where the hell is the cavalry?” A former head of this agency named Michael Brown resigned in September 2005 after George W. Bush credited him with “doing a heck of a job” responding to Hurricane Katrina. For 10 points, name this American agency that coordinates federal disaster relief.

ANSWER: FEMA [or Federal Emergency Management Agency] <SE>

16. Larry Gross and Nancy Signorelli of UPenn helped develop “cultivation analysis” in studies of *this thing*. Brian Winston gathered a group of scholars in Glasgow, Scotland to study the effects of *this thing*. The term “symbolic annihilation” was coined in a study on *Living With this thing* by George Gerbner, who developed the Mean World Index while studying it. A book written in California by Raymond (*) Williams claims that *this thing* led to a change from “the concept of sequence” to the “concept of flow.” A “Peek-a-Boo World” and increases in information-to-action ratio were brought on by *this thing*, according to a book that likens it to the drug *soma* from Aldous Huxley’s *Brave New World*. Neil Postman’s *Amusing Ourselves to Death* vilified—for 10 points—what medium called a “vast wasteland” by FCC chair Newton Minow, which can be quantitatively studied using Nielsen ratings?

ANSWER: television [or broadcast television or cable television; or broadcast/cable TV; accept answers specifically indicating television news programs; prompt on media or screen media] <MJ>

17. In the founding work of this genre, a divine council condemns Lentulus Lupus to death for his depraved lifestyle. That work also describes a “trip to Sicily” which a later work in this genre paralleled. A work in this genre begins with the question “Shall I always be only a listener?” Quintilian claimed that this genre was “wholly our own” since it was invented by the Roman writer Lucilius. A poem in this genre describes a “certain guy” named Bolanus, and begins “I was walking, by chance, on the Sacred Way.” The (*) *Sermones* are works in this genre, which was also used for a poem describing the emperor Claudius’s “gourdification.” The sixth poem of a collection in this genre rails against women and contains the question “who will guard the guards themselves?” The phrase “bread and circuses” was coined in a work by Juvenal in—for 10 points—what genre?

ANSWER: Roman satires [or satira] <MK>

18. This musician was attributed a number of compositions in an extremely dubious PhD dissertation by Martin Jarvis, which has been dismissed by scholars like Christoph Wolff. A collection named for this musician includes a slightly simplified version of a Rondeau by François Couperin. That collection named for this musician includes a piece that begins with a quarter note “D,” followed by the ascending eighths “G A (*) B C D.” This musician, who died as a beggar in 1760, married a first cousin who was working at the court in Köthen. The song “Bist du bei mir” and a “Minuet in G” were included in a 1725 *Notebook* for this musician. Maria Barbara was followed by—for 10 points—what mother of Johann Christian, the second wife of Johann Sebastian Bach?

ANSWER: Anna Magdalena Bach [accept Anna Magdalena Bach; prompt on just Bach; accept Anna Magdalena Wilcken] <JR>

19. Ivor Wilks argued that *this object*’s function was completed by holding an elephant’s tail. This object is currently flanked by two masks mocking a Gyaaman king who copied it, as well as by two bells that were used in ordeals to reveal who had sold parts of it after railroad workers unearthed it in 1921. This object’s name refers to its “birth on a Friday,” and it appears in a black band surrounded by yellow and green bands on a flag flown above the Manhyia Palace. This object is said to contain a nation’s (*) *sumsum*. Attempts to enforce the Treaty of Fomena prompted an ill-advised speech about this object, which Okomfo Anokye caused to fall from the sky into the lap of Osei Tutu I. After Prempeh I’s exile in the Seychelles, Frederick Hodgson demanded this object from Queen Yaa, sparking a revolt that led to the conquest of Kumasi. For 10 points, what throne names the last Anglo-Ashanti war?

ANSWER: Golden Stool [or Sika Dwa Kofi] <MW>

20. Francis Crick's "knobs into holes" theory is mostly used today to hetero-dimerize alpha helices on these proteins. A fold in which seven and nine antiparallel beta strands alternate being laid in two parallel beta sheets, also called a "Greek key barrel", is named for these proteins. I-CAMs and V-CAMs are part of a cell-adhesion protein superfamily named for them. These proteins all have either three or four C-H domains near their hinges. Affimers mimic these proteins, which are usually purified using (*) Protein A affinity chromatography. s·c·F·vs are derived from these proteins, whose "crystallizable fragment", or F·c, region is heavily glycosylated. These proteins have two crucial disulfide bonds that link their constant regions and display light chains in their hypervariable regions. For 10 points, name these immune proteins with a characteristic Y shape.

ANSWER: antibodies [or immunoglobulins; or Igs; or Abs; or monoclonal antibodies] <AS>

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Packet 3 Bonuses

1. In the fifth tableau of this opera, an angel plays a viol solo represented by three ondes Martenot playing a chromatic melody over a soft, sustained C major chord in the strings. For 10 points each:

[10] Name this five-hour-long opera that took Olivier Messiaen [oh-lee-VYAY meh-see-“ON”] eight years to write. A 1992 staging of this opera by Peter Sellars inspired Kaija Saariaho to write *L’amour de loin*.

ANSWER: ***Saint François d’Assise*** [or ***Saint Francis of Assisi***]

[10] This other 20th century French opera with Catholic themes ends with the title nuns singing “Salve Regina” as they are executed one-by-one during the Reign of Terror.

ANSWER: ***Dialogues of the Carmelites*** [or ***Dialogues des Carmélites***]

[10] *Dialogues of the Carmelites* was written by Francis Poulenc, who was part of a group of *this* number French composers. The group named for this number also included Germaine Tailleferre [tie-FEHR] and Darius Milhaud [mee-YOH].

ANSWER: Les **Six** <SK>

2. This novel’s first title character first goes to the racetrack with his friend Wardley-Fish. For 10 points each:

[10] Name this novel that won the 1989 Miles Franklin Award. Despite their very different backgrounds as an Anglican minister and an orphaned heiress, this novel’s title characters meet aboard a ship and bond over their gambling addiction.

ANSWER: ***Oscar and Lucinda***

[10] *Oscar and Lucinda* is set in *this* country, the home of its author Peter Carey. Banjo Paterson’s “bush ballads” about this Commonwealth country’s wilderness include “Waltzing Matilda.”

ANSWER: Commonwealth of **Australia**

[10] Lucinda shares a painful memory with Oscar about destroying one of *these* objects as a child, and then trying to repair it with horse hair. In an early Australian play by Ray Lawler, Roo brings his long-distance girlfriend Olive one of these objects for the seventeenth summer in a row.

ANSWER: **dolls** [or **kewpie dolls**; accept *Summer of the Seventeenth Doll*] <MJ/JM>

3. Throughout its roughly century-long existence, this republic was protected by the Pontianak sultanate and by tributes it paid to the Qīng dynasty. For 10 points each:

[10] Name this largest of the kongsi or *gongsi* [GONG SUH] republics. A Hakka man named Luó Fāngbó [lwoh FAHNG-bwoh] founded this democratic state in western Borneo in 1777.

ANSWER: **Lánfāng Republic**

[10] The kongsi republics were founded and governed by men of *this* trade. In the 1850s, Chinese men migrated to Ballarat to become this sort of worker in Victoria, Australia.

ANSWER: **miners** [or gold **miners** or tin **miners**]

[10] The Lanfang republic eventually fell to *this* European power, whose East India Company also established coffee plantations across what is now Indonesia.

ANSWER: Kingdom of the **Netherlands** [or **Nederland**; or **Dutch** East India Company; or **VOC**; or **Vereenigde Oost-Indische Compagnie**; accept **Holland**; do not accept “United Provinces” or “Dutch Republic”] <MJ>

4. For 10 points each—answer the following about soil fertility:

[10] The nutrient and water retention of topsoil is improved by this dark, well-decomposed component of soil organic matter. Recent studies have questioned the use of alkaline extractions to study this material.

ANSWER: **humus**

[10] Organic matter increases the retention of plant-available nutrients by boosting this quantity, the ability for positive ions to adsorb to soil surfaces.

ANSWER: **cation exchange capacity** [or **CEC**]

[10] Commercial fertilizers typically contain nutrients containing these *three* essential elements, whose percentage by weight is written as a hyphenated series of three numbers. Name *all three*.

ANSWER: **nitrogen, phosphorus, AND potassium** [or **N, P, AND K**; accept answers in any order] <SK>

5. If you got lots of emails saying “We just updated our privacy policy” last year, it’s probably because *this* document requires businesses to take “appropriate technical and organisational measures” on behalf of “data subjects.” For 10 points each:

[10] Name, or give the acronym of, this legal document that took effect mid-2018. Its provisions include a 72-hour requirement for reporting any data breaches.

ANSWER: **GDPR** [or **General Data Protection Regulation** 2016/679]

[10] The GDPR is a product of this transnational governing entity, whose namesake Commission has offices in Luxembourg City and in Brussels. The Brexit referendum resulted in a vote to leave this entity.

ANSWER: **European Union** [or **EU**; accept **European Commission**]

[10] The final GDPR used the phrase “right of erasure” instead of *this* hotly-debated four-word phrase. In a suit against Google Spain, Mario Costeja González invoked *this* to demand that damaging information about his finances be de-listed from search results.

ANSWER: “**right to be forgotten**” <MJ>

6. For 10 points each—answer the following about August Strindberg’s influences.

[10] Strindberg began corresponding with *this* writer in 1888, and even referred to this man as his “husband.” Their friendship ended abruptly when this writer sent Strindberg a one-line letter reading, “Eheu! No more! Divorgons! The Crucified One.”

ANSWER: Friedrich (Wilhelm) **Nietzsche**

[10] In the same year, Strindberg wrote *this* play about an aristocrat’s daughter who has sex with the lower-class valet Jean. In its misogynistic preface, the title character is described as a “man-hating half-woman” and a “stunted form of human being.”

ANSWER: **Miss Julie** [or **Fröken Julie**]

[10] Strindberg wrote about his move away from Nietzsche’s philosophy and towards that of Emanuel Swedenborg in an autobiographical novel titled for *this* poem, which has been translated by John Sinclair and Robert Pinsky.

ANSWER: **Inferno** [prompt on *Divine Comedy* or *Divina Commedia*] <DS>

7. Floral heterostyly tends to be genetically linked to this trait, which in one gametophytic mechanism is regulated by the interaction between an S-RNase [S-R-N-aze] gene and multiple S-locus F-box genes. For 10 points each:

[10] Identify this trait. Baker's Law states that plants with this trait are less likely to succeed in colonizing islands.

ANSWER: **self-incompatibility** [or being **unable** to **self**-fertilize; accept **self-sterility**]

[10] S-RNases that prevent selfing work by inhibiting this otherwise fast-growing structure that, in angiosperms, is made by the male gametophyte inside the pistil. LURE peptides help guide this structure's growth.

ANSWER: **pollen tubes**

[10] By enforcing outcrossing, self-incompatibility reduces the risk of this phenomenon, in which an organism produces offspring with close relatives—in this case, with itself. By increasing homozygosity, this phenomenon makes the expression of deleterious recessive alleles more likely.

ANSWER: **inbreeding** [accept word forms] <SK>

8. Narayana Kocherlakota showed that in environments where agents cannot commit, this thing is equivalent to public records of all transactions. For 10 points each:

[10] Name this thing, whose traditional roles are as medium of exchange, unit of account, and store of value.

ANSWER: **money** [do not accept or prompt on "currency" or other similar answers]

[10] From 2009 to 2015, Kocherlakota was the Fed president in *this* city. While serving as Fed president in this city, Kocherlakota and his successor, Neel Kashkari, have both encouraged the FOMC to pursue more dovish policy.

ANSWER: **Minneapolis** [do not accept or prompt on "St. Paul"]

[10] A 1985 paper by George Akerlof and this other economist showed that anticipated changes in the money supply have real effects, since second-order deviations from rationality can have first-order effects.

ANSWER: Janet **Yellen** <SB>

9. Kabbalistic sources modify this word with *kefitzat*, meaning "contraction" or "jumping," to describe how God can basically teleport a person across great distances. For 10 points each:

[10] Give this Hebrew word used to denote the "path" of righteousness. People who stop adhering to Jewish law are said to be "off" this thing.

ANSWER: **haderekh** [pronounced with the guttural *kh* sound like the beginning of "Hanukkah"] [or **haderech**; accept *kefitzat haderech*; accept "off the **derekh**"]

[10] A school linking the Torah to *derekh eretz*, or "the way of the land," is part of *this* strict branch of Judaism. It includes the Hasidic and Lubavitcher movements and "ultras" exempted from Israeli military service.

ANSWER: **Orthodox** Judaism [or Modern **Orthodox**; accept **Haredim**]

[10] The rabbi who founded the *Torah im Derekh Eretz* movement had *this* Biblical first name. The Biblical hero of this name, a son of Manoah, tells thirty men at his wedding a riddle about finding honey in the carcass of a lion.

ANSWER: **Samson** [or **Shimshon**; accept **Samson** Raphael Hirsch] <MJ>

10. A 1991 article by John V. Nye argues it is a myth that Britain pursued this policy more than France during the nineteenth century. For 10 points each:

[10] Name this general policy that was furthered by Cobden–Chevalier Treaty of 1860. Paul Bairoch demonstrated a positive correlation between *not* pursuing it and economic growth in the late nineteenth century.

ANSWER: **free trade** [or **trade liberalization**; or anything about lowering or eliminating tariffs]

[10] In the United Kingdom, free trade was opposed by *this* Colonial Secretary, who argued instead for a system of “Imperial Preferences” between Britain and its dominions. This man’s *son* was prime minister in the late 1930s.

ANSWER: Joseph **Chamberlain** (The son is Neville Chamberlain.)

[10] Some historians have argued that the U.K. jumpstarted its modern textile industry with *these* laws passed in 1700 and 1721, which banned the import and sale of cotton. Wool and linen producers lobbied for these laws to protect local industry from Indian goods.

ANSWER: **Calico** Acts <SB>

11. In his poem “Afternoon,” this author describes his body lighting up “like all the wishes being granted in a fountain / at the same instant / all the coins burning the fountain dry.” For 10 points each:

[10] Name this author of the collection *Four Reincarnations*. His mentor Louise Glück officiated his wedding shortly before his death at age 25.

ANSWER: Max **Ritvo**

[10] Much of Ritvo’s poetry is about his experience with *this* disease. The Black Mountain poet Ed Dorn’s poems about undergoing treatment for this disease are collected in his punningly titled volume *Chemo Sabe* [SAH-bay].

ANSWER: **cancer** [accept any specific kind of **cancer**, e.g. **leukemia**, **lymphoma**, **sarcoma**, etc.]

[10] This “womanist” poet chronicled her mastectomy and her choice not to please society by wearing a prosthesis in her book *The Cancer Journals*. Her essay “The Master’s Tools Will Never Dismantle the Master’s House” was collected in her volume *Sister Outsider*.

ANSWER: Audre (Geraldine) **Lorde** <DS>

12. One of these paintings includes red and blue curves touching vertices of a cube that’s suspended above a grid of dotted lines. For 10 points each:

[10] Give this term used to title a series of three-dimensional Suprematist works by El Lissitzky.

ANSWER: **prouns** [proh-oon] [accept **proyekt utverzhdniya novogo**]

[10] Lissitzky wrote and illustrated a Suprematist children’s book *About* two of *these* geometrical shapes, which were depicted in Kazimir Malevich’s *White on White* and a painting titled for a *Black* one of them.

ANSWER: **squares** [accept **About Two Squares** or **Black Square**]

[10] Victor Margolin’s book *The Struggle for Utopia* traces the influence of Lissitzky and Alexander Rodchenko on *this* artist, who had a cut-out of a car “drive” on the title word of his piece *Pneumatik*. This artist used red and white sans serif type in his influential cover design for the book *Painting, Photography, Film*.

ANSWER: László **Moholy-Nagy** [moh-hoy NOJ] [or **Moholy-Nagy** László; or László **Weisz** or **Weisz** László] <JR>

13. Answer the following about Bronze Age Greek scripts, for 10 points each:

[10] This as-yet-undeciphered script was discovered by Sir Arthur Evans. Found in Minoan Crete and the Cyclades, this script is distinct from a later “B” variety, though it may likewise be syllabic and ideographic.

ANSWER: **Linear A**

[10] The discovery of 1,087 tablets at *this* city during the excavations of Carl Blegen helped facilitate the deciphering of Linear B. More than 3,500 Bronze Age artifacts have been recovered from the “Griffin Warrior Tomb” near this city’s “Palace of Nestor.”

ANSWER: **Pylos**

[10] The symbols on this object, which Luigi Pernier discovered in a Minoan Palace in 1908, conform to neither Linear A nor Linear B. Some have claimed that this object’s symbols were imprinted into clay with movable type.

ANSWER: **Phaistos Disc** <MK>

14. This thinker wrote that “nature is Messianic by reason of its eternal and total passing away” in a puzzling “Theological-Political Fragment.” For 10 points each:

[10] Name this German philosopher who described “the messianic” as a “weak power” and formulated the notion of “messianic time.”

ANSWER: Walter **Benjamin** [BEN-yuh-meen]

[10] Benjamin is best-known for an essay analyzing how the “aura” around *these* things has changed “in the Era of Mechanical Reproduction,” which subverts the danger of the aestheticization of politics. Richard Wagner advocated a “total” form of these things encompassing as many forms as possible.

ANSWER: works of **art** [or (*Gesamt*)**kunstwerken**]

[10] This contemporary philosopher argued that Benjamin’s “messianic time” was a reprise of Pauline theology in his book *The Time That Remains*. His most famous work includes the volume *Remnants of Auschwitz*.

ANSWER: Giorgio **Agamben** <JM>

15. For 10 points each—answer the following about the synthesis of chloro-aniline:

[10] Chloro-aniline can be synthesized from chloro-benzene by first reacting it with this compound, and then reducing with iron in HCl. This mineral acid is industrially synthesized from ammonia in the Ostwald process.

ANSWER: **nitric** acid [or **HNO₃**]

[10] Since chlorine is a sigma acceptor and a pi donor, it is both a deactivator *and* one of these substituents in E·A·S reactions. These substituents increase the electron density at three of the five unsubstituted carbons on a ring.

ANSWER: **ortho/para** directors [or **ortho/para** activators]

[10] If you react chlorobenzene with sodium amide in ammonia, it will eliminate the chlorine through to benzyne; however, this benzene derivative will add ammonia directly in the Chichibabin reaction. This compound is industrially synthesized by reacting acetaldehyde and formaldehyde in a 2 to 1 ratio, plus stoichiometric ammonia.

ANSWER: **pyridine** [or **azine**; or **C₅H₅N**] <AS>

16. Answer the following about recent changes to the English translation of the Roman Missal, for 10 points each.

[10] Most of the changes affected *this* creed, whose beginning shifted from “We believe” to “I believe.” This creed’s *filioque* clause is rejected by the Eastern Orthodox Church.

ANSWER: **Nicene** Creed [accept **Niceno–Constantinopolitan** Creed]

[10] In the new translation, *this* section of the Eucharist prayer includes the line “Let us give thanks to the Lord our God” with the new response “It is right and just.” This dialogue includes the line “Lift up your hearts” and leads into the *Sanctus*.

ANSWER: **Preface**

[10] In this section of the Missal, “peace to His people on earth” became “on earth peace to people of good will.” This text includes the petitions “You take away the sin of the world, receive our prayer; You are seated at the right hand of the Father, have mercy on us.”

ANSWER: **Gloria** in Excelsis [accept **Glor**y to God in the highest; accept **Greater Doxology**; accept **Angelic Hymn** or **Hymn of the Angels**; do not accept or prompt on “Minor Doxology,” “Lesser Doxology,” “Gloria Patri,” “Glory Be,” or “Glory Be to the Father”] <MK>

17. In this country, Bizunesh Bekele made several hit soul recordings in the ‘70s, when this country was also home to a movement integrating its indigenous musical traditions with jazz. For 10 points each:

[10] Name this country in the Horn of Africa, the origin of a blues-like genre called tizita and home of itinerant bards called azmaris. Much of its traditional music is sung in Amharic.

ANSWER: (The Federal Democratic Republic of) **Ethiopia** [or **Ἔθιοπία**; accept **Ethio-Jazz**]

[10] The “father” of Ethio-jazz was *this* bandleader, who reworked Horace Silver’s “Song for My Father” into “Yèkèrmo Sèw.” Since 2016, this musician has collaborated with the Australian Ethio-jazz band The Black Jesus Experience.

ANSWER: Mulatu **Astatke**

[10] Astatke led his band from *this* instrument, which Milt Jackson played with the Modern Jazz Quintet. Lionel Hampton led his “orchestra” from this instrument, which uses an electric motor.

ANSWER: **vibraphone** [or the **vibes**; do not accept or prompt on “xylophone”] <JM>

18. An airbase called Henderson Field was a critical facility on this island, where ships coming in from the northwest were often sunk in “The Slot,” or Ironbottom Sound. For 10 points each:

[10] Name this island, where U.S. and Japanese forces fought as the year 1942 gave way to 1943.

ANSWER: **Guadalcanal** [prompt on **Solomon** Islands]

[10] Guadalcanal was contested in this “theater” of World War II. Chester Nimitz and Bull Halsey took U.S. troops “island-hopping” across this geographic feature.

ANSWER: **Pacific** Ocean [or **Pacific** theater; or South **Pacific**; or Asia-**Pacific** War]

[10] This Vice Admiral oversaw the “Cactus Air Force” that flew missions at Guadalcanal. This eventual commander of the Fast Carrier Task Force, who died just four days after Japan’s surrender, is the only U.S. admiral whose son also attained the rank of admiral.

ANSWER: John Sidney “Slew” **McCain** Sr. [or John Sidney **McCain** I] (Grandfather of the Arizona senator.) <MJ>

19. This playwright wrote about the tragic love between Anibal de la Luna and Celestina del Sol in his play *Cloud Tectonics*. For 10 points each:

[10] Name this playwright. He wrote about a young copy editor who is told that her guardian angel is leaving her to fight against God, who is “taking the rest of the universe with him” as he dies, in his play *Marisol*.

ANSWER: José **Rivera**

[10] Rivera is from *this* island. Other writers from this island include Francisco Arriví and Giannina Braschi, who wrote *Yo-Yo Boing!*.

ANSWER: Commonwealth of **Puerto Rico** [or Estado Libre Asociado de **Puerto Rico**]

[10] Rivera’s plays are often described as being part of *this* fantastical literary genre pioneered by Latin American writers like Alejo Carpentier.

ANSWER: **magical realism** [or **magical realist** or **realismo mágico**; accept **marvelous realism**; do not accept or prompt on partial answers] <WJ>

20. A Dirac function replaces the nuclear potential in a pseudopotential usually invoked to explain scattering of this particle by an atomic nucleus. For 10 points each:

[10] Name this massive particle that is produced at a spallation source for diffraction analysis of bulk materials. This particle is fired at uranium to induce nuclear fission.

ANSWER: **neutrons** [or **neutron** scattering]

[10] The neutrons used in wide-angle neutron scattering experiments are usually described by this adjective because they are at higher velocities than thermal neutrons. Moderation is done to reduce the energy of these neutrons.

ANSWER: **fast** neutrons

[10] A key use of small-angle neutron scattering is the determination of this quantity for a mesoscopic object using Guinier’s law. For a polymer, this distance equals the contour length divided by the square root of six times the number of monomers.

ANSWER: **radius of gyration** [or **R-g**] <AS>