

PACE NSC 2022 - Round 08 - Tossups

1. **Two answers required.** Harry Jaffa analyzed the "crisis" surrounding an event involving these two politicians using the Socratic method. One of these two politicians gave a speech denouncing the other by saying that "a living dog is better than a dead lion." The walk-out of William Yancey's "fire eaters" helped one of these politicians defeat the other in a presidential election. One of these politicians conceded to the other that the Supreme Court could not stop a (*) popular ban on slavery as part of the Freeport Doctrine. In 1858, one of these two politicians stated that a "house divided cannot stand" while running for the other's senate seat. For 10 points, name these two politicians, an Illinois Senator and future President who debated each other over slavery.

ANSWER: Abraham Lincoln and Stephen A. Douglas [accept Lincoln-Douglas debates]

<Michael Bentley, History - American - Pre-1865> ~23094~

2. A massive public transportation project in this city is currently constructing the world's first light rail line over a floating bridge. In 2020, a major bridge linking the main part of this city to its western neighborhoods was closed due to cracks likely stemming from the 2001 Nisqually Earthquake. This city's little-used monorail was refurbished in 2021 to service Climate Pledge Arena, a new (*) hockey arena. That monorail in this city passes through a museum designed by Frank Gehry. A large automobile tunnel now runs underneath this city's popular Pike Place Market. The "Day 1" corporate campus in this city contains the "Bezos Balls" and serves as Amazon's headquarters. For 10 points, name this city home to the Space Needle.

ANSWER: Seattle

<Michael Bentley, Geography - United States> ~22663~

3. **Bremsstrahlung** is the predominant mode of radiation in material with this property, whose presence defines H II ("H two") regions. Material abruptly loses this property with sufficient distance from O-type stars, which are the centers of most planetary nebulae. The loss of this property at the start of the recombination epoch allowed photons to decouple from matter and form the CMB. The observation of (*) iron with an extreme form of this property was mistaken for a new element in the Sun's corona. The interstellar medium is filled with atoms with this property in the form of plasma. For 10 points, name this property of atoms which have lost some or all of their electrons.

ANSWER: ionized [or ionization; accept charged or positive charge; accept quasi-neutral before "iron"]

<Kevin Wang, Science - Astronomy> ~23692~

4. The Forbes Type refers to a distinct style of hair locks in portraits of this man. A full-length portrait statue of this man has him wearing a breastplate that depicts the return of some *aquilae*. Richard Meier built a museum for a monument honoring this man whose East Wall depicts a bellatrix sitting on a pile of enemy weapons. This patron of the *Ten Books on Architecture* is honored in a peace monument called the (*) Ara Pacis and is depicted in a sculpture found at Prima Porta. Suetonius recounts how this man converted a capital of brick into a city of marble. The Res Gestae was engraved on pillars at this man's Mausoleum, which contains the body of his wife Livia Drusilla. For 10 points, name this first Roman Emperor.

ANSWER: Augustus [or Caesar Augustus; or Octavian; or Gaius Octavius]

<Michael Bentley, Fine Arts - Sculpture> ~22634~

5. A sequel titled for this play "Repaired" was written by Israel Zangwill and Karl Marx's daughter Eleanor. A character from this play is likely to "fall into degradation" according to a 1923 speech analogizing that character to the nation of China. A character from this play starts work in a factory in an Elfriede Jelinek ("el-FREE-duh YELL-i-neck") sequel subtitled for another play by the same author, *The (*) Pillars of Society*. A character from this play who gets nicknamed "little squirrel" had earlier funded her husband's recuperation in Italy with a forged bond, leading to her blackmail by Krogstad. That character in this play leaves her bank manager husband in its last act by slamming the door. For 10 points, Nora Helmer leaves home in what Henrik Ibsen play?

ANSWER: A *Doll's House* [or A *Doll House* or Et *dukkehjem*] (The second line refers to Lu Xun's speech "What happens after Nora leaves home?")

<Joseph Krol, Literature - European - Drama> ~23161~

6. A Chinese poet named for this sort of place and his sidekick Shide ("shir-deh") are honored as incarnations of bodhisattvas ("boh-dee-SAHT-vahs"). The nine schools of Seon ("sun") Buddhism in Korea are named for these places. Members of the syncretic Shugendo sect are said to "prostrate" themselves before these places. One of these places called Hiei is the site of Enryaku-ji, the center of the Tendai school. Mandalas often (*) center on one of these places that also inspired the design of temples like Borobudur. In Buddhism, the axis mundi is one of these places called Sumeru that is identified with a real one named Kailash. Shaolin is one of the many monasteries built on this sort of place. For 10 points, name these geographical features, which are often sacred in the Himalayas.

ANSWER: sacred mountains [or mounts; or peaks; or shan; or yama; accept Hanshan or Yamabushi]

<Michael Bentley, RMP - Buddhism> ~23774~

7. In a poem by this author, the bookseller Edmund Curll falls into a pool of excrement during a race, but wins a later contest by letting out the highest stream of urine. That poem by this author ends with the "great Anarch" restoring the "dread Empire" of Chaos before "universal darkness buries all." The main character of a poem by this author forgets a warning to be wary of men after being licked awake by her lapdog Shock. A poem by this author identifies the playwright (*) Colley Cibber as the Prince of Dullness. In a poem by this author, the Baron overcomes the sylphs protecting Belinda to perform the title action with a pair of scissors. For 10 points, name this 18th century British author of the mock epic poems *The Dunciad* and *The Rape of the Lock*.

ANSWER: Alexander Pope

<Michael Bentley, Literature - British - Poetry> ~23003~

8. German colonialist August Stauch made his fortune in this industry in the boom town of Lüderitz ("LOO-duh-rits"). One of the most famous products from this industry was first documented by French traveler Jean Baptiste Tavernier after visiting a place called Kollur on the Krishna River. In 18th century Europe, the term "Golconda" was synonymous with this industry. A town originally called New Rush with strict identity card requirements was a center of this industry and contained the (*) Big Hole. In 2003, companies in this industry agreed to the Kimberley Process to try to divert proceeds from warlords. Cecil Rhodes gained control of this industry through his De Beers company. For 10 points, name this industry whose products are commonly added to engagement rings.

ANSWER: diamonds [prompt on jewelry industry] (The clue about Jean Baptiste Tavernier is referring to the Hope Diamond.)

<Michael Bentley, History - Cross, Historiography, and Miscellaneous> ~22884~

9. A D minor piano sonata nicknamed for this phenomenon introduces three contrasting motifs within its first six measures: a *largo* ascending A major arpeggio followed by a fast *allegro* theme in its opening bars. This phenomenon is depicted in another piece by the unison notes "G, F, E-flat, D" descending over repeated sixteenth-note Gs. The composer of that piece described in an accompanying sonnet how the (*) "gnats and flies buzz furiously around" a shepherd who fears this phenomenon. An F minor fourth movement representing this phenomenon is followed by an F major "Shepherd's Song" that depicts a "Merry Gathering of Country Folk" in Ludwig van Beethoven's *Pastoral* Symphony. The third movement of "Summer" from Antonio Vivaldi's *The Four Seasons* depicts, for 10 points, what type of weather?

ANSWER: thunderstorms [accept as rainstorms or tempests; prompt on weather before "weather"]

<Jonathan Magin, Fine Arts - Music - Classical> ~23733~

10. Michel Laberge ("lah-BAIRZH"), who is continuing the tradition of building these devices in Culham, Oxfordshire, gave a TED talk comparing his device to a synchronized hammer strike. A Q-value of 1, called the "break even" level, has yet to be reached by one of these devices made by the NIF ("NIF"), which applies the world's most powerful laser to a hohlraum ("HOLE-rowm"). A large one of these devices being built in the south of France is called (*) ITER ("itter"). These devices seek to exceed the Coulomb ("COOL-oam") barrier via inertial or magnetic confinement. A magnetic field confines plasma in a toroidal shape in one of these devices based on a tokamak. For 10 points, name these devices that seek to produce energy through the combination of atomic nuclei, contrasted with fission reactors.

ANSWER: thermonuclear fusion reactors [accept cold fusion reactors or fusion power plants or tokamaks before mentioned; prompt on reactors or power plants or nuclear reactors]

<Michael Bentley, Science - Physics> ~22993~

11. A "barbarous" overseer on this project was said to have eaten a two-year-old child each day. In the 1850s, this project was badly damaged during the Northern Expedition, with workers on it forming the Green Gang and controlling the illegal salt trade. Matteo Ricci wrote admiringly about how this project enabled the system for collecting grain taxes known as *caoyun* ("tsao-yoon"). Song Li came up with a system of (*) sluice gates while working on this project. This project was carried out simultaneously with the reconstruction of Luoyang under Emperor Yang of Sui. This project was the first of its kind in the world to employ pound locks. Suzhou and Hangzhou became strategic trade centers thanks to, for 10 points, what large artificial waterway in China?

ANSWER: Grand Canal [or Jing-Hang Grand Canal; or Capital-Hangzhou Grand Canal; or Imperial Canal; or Jīng-Háng Dà Yùnhé; or New Bian Canal; anti-prompt on Bian Canal; prompt on canal]

<Michael Bentley, History - World - Asian> ~23867~

12. This author first found success with a "History" that described a character "exactly five feet six inches in height and six feet five inches in circumference." A series of tales set at Bracebridge Hall by this creator of the politician Wouter van Twiller helped invent the American notion of Christmas. In one story by this author, a teacher passes by a tree haunted by (*) Major Andre on his horse Gunpowder. That same character created by this author encounters a figure that is implied to be his rival, Brom Bones, wearing a jack-o-lantern. This author, who published several stories under the pseudonym Diedrich Knickerbocker, created the character of Geoffrey Crayon. For 10 points, name this author of "The Legend of Sleepy Hollow."

ANSWER: Washington Irving

<Michael Bentley, Literature - American> ~23119~

13. The RANTES ligand and MIP help suppress this infectious agent in vitro. This infectious agent is deemed R5 or X4 based on its preferred target cell, which results in M-tropism ("M TROPE-is-um") or syncytium ("sin-CITY-um") forming T-tropism. Both this infectious agent and drugs used to treat it are associated with body fat rearrangement. Maturation inhibitors have been studied for treatment of this pathogen. The entry inhibitor maraviroc inhibits this pathogen by binding the (*) CCR5 receptor, which, when mutated, provides resistance to this pathogen. HAART therapy for this pathogen may include protease inhibitors, integrase inhibitors, and NRTIs such as AZT. Reverse transcriptase helps replicate the genome of, for 10 points, what retrovirus which kills T cells to cause AIDS?

ANSWER: HIV [or human immunodeficiency virus; do not accept or prompt on "AIDS" or "acquired immunodeficiency syndrome"]

<Michael Bentley, Science - Biology> ~22682~

14. To honor the New Year, these people gathered at the Yazılıkaya ("yah-zih-lih-kye-ah") rock sanctuary near their capital. A group of raiders that this people called the Kaska repeatedly looted their royal court and prevented them from expanding westwards. These people's king is described as "the wretched one" in the *Poem of the Pentaur*, which recounts a battle they lost. Historians used the Edict of (*) Telepinu to construct a history of these people's kings. These people annexed the territory of the Mittani during the reign of Suppiluliuma I. These people formed the northernmost of two kingdoms that sent 6,000 chariots into battle in 1274 BCE at Kadesh. For 10 points, name these people of ancient Anatolia with capital at Hattusa.

ANSWER: Hittites [accept Old Hittite Kingdom or New Hittite Kingdom; accept Nesilim or Luwian; accept Kingdom of Hattusa until the end; accept Kingdom of Hatti]

<Michael Bentley, History - European - Classical> ~23957~

15. Phillip Lopate's anthology of writing about this industry includes a section on "Masters and Moonlighters" of the 1930s such as James Agee. People in this industry were the most common subject of columns by Louella Parsons and Hedda Hopper. This industry's history is the subject of Karina Longworth's podcast *You Must Remember This*. Eric Rohmer edited an influential French magazine on this industry often referred to as just (*) *Cahiers* ("cahy-air"). Pauline Kael's many essays on this industry includes one celebrating Herman J. Mankiewicz ("mang-ki-wits") to combat *auteur* theory and another that blamed the decline of the screwball genre on blacklist era writers like Dalton Trumbo. For 10 points, name this industry whose creations were frequently reviewed by critic Roger Ebert.

ANSWER: film industry [or movie industry; or Hollywood; or equivalents; prompt on entertainment industry or celebrity industry]

<Michael Bentley, Other - Other Academic and General Knowledge> ~22825~

16. Michael McLure examined this one-time engineer's "mechanical analogy" that imagines a "homo economicus" to be similar to a "material point." Later thinking by this economist held that people act on emotional "residues." This thinker coined the term "ophelimity" to measure utility. This economist's *Cours d'economie politique* built on theories of Leon Walras. A condition named for this man is satisfied when there is (*) complete information, complete markets, and perfect competition according to the First Welfare Theorem. A concept named for this man describes a situation where no one can be made better off without making someone else worse off. For 10 points, what Italian economist coined the 80/20 rule and names an "efficiency?"

ANSWER: Vilfredo Pareto [or Vilfredo Federico Damaso Pareto; or Wilfried Fritz Pareto]

<Michael Bentley, Social Science - Economics> ~23954~

17. Muriel Latow was paid \$50 for coming up with the idea for these works, suggesting the artist create "something people see every day." These paintings were first displayed at the Ferus Gallery in Los Angeles after Irving Blum convinced the artist that "movie stars come into the gallery." Each of these works had numerous fleur-de-lis hand-stamped on the bottom and a gold disk rather than a more complicated medallion. These 32 canvases were traced from a projected (*) magazine ad. One of these paintings has a yellow banner reading, "Great as a sauce too!" and they were supposedly based on "the same lunch [the artist had] every day, for twenty years." The words "Beef Broth" appear on one entry in, for 10 points, what series by Andy Warhol?

ANSWER: Campbell's Soup Cans Series I [accept any answers involving Andy Warhol's Campbell's or Soup series]

<Michael Bentley, Fine Arts - Painting - U.S.> ~22465~

18. While following in secret, this hero sees his mother enter the underworld by pulling on a tuft of reeds; he then takes the form of a pigeon to enter the underworld himself. This hero visits the sleeping "Great Woman of Night" in an attempt to obtain immortality, which ends with him being crushed by obsidian teeth. This god repeatedly extinguished a goddess's burning fingernails as part of a scheme to steal (*) fire for the upper world. This hero's greatest feats include overpowering the sun with a jawbone and hauling up an island chain with a fishhook. For 10 points, many legends from the South Pacific concern what trickster hero from Polynesian mythology, who lends his name to one of the islands of Hawai'i?

ANSWER: Maui

<Matthew Bollinger, RMP - World Mythology> ~24154~

19. In one novel set in this country, a co-owner of the Scaly City reptile park is murdered in a carjacking. Astrid refuses to bequeath a house to the servant Salome in that novel from this country, *The Promise*. Regular visits to Discreet Escorts prompt the protagonist of a novel set in this country to claim to have "solved the problem of sex rather well." In that novel from this country, the "dog man" Petrus plots an attack on (*) Bev Shaw's sometime-lover while he is staying at his daughter Lucy's farm. In that novel from this country, a professor resigns after having an affair with his student Melanie Isaacs. David Lurie is the protagonist of *Disgrace*, a novel set in – for 10 points – what home country of J. M. Coetzee?

ANSWER: South Africa [or Republic of South Africa]

<Michael Bentley, Literature - World and Miscellaneous> ~23090~

20. This quantity for a polymer solution is related to intrinsic viscosity using a pair of parameters named for Herman Mark and Roelof Houwink. This quantity is determined by measuring a gasses' vapor density in a technique developed by Jean Dumas. The polydispersity index measures the ratio between two forms of this quantity. The root mean square velocity of gas molecules equals the square root of 3R times temperature over this quantity, which has (*) weight and number-average forms. The rate of effusion is inversely proportional to the square root of this quantity according to Graham's law. Water has a value of 18.02 grams of, for 10 points, what quantity equal to the sum of a molecule's atomic masses?

ANSWER: molar mass [or molecular weight; accept number-average molecular weight or weight-average molecular weight]

<Benjamin Chapman, Science - Chemistry> ~23217~

21. Following a 2021 landslide at this national park, an executive at oil company ConocoPhillips staged a fundraiser to fix a road named for Governor George Parks. An object in this National Park named for topographer Robert Muldrow was "surging" at 9 feet per day in 2021. Many tourists to this park hike the Stampede Trail to see a bus once owned by Christopher McCandless from the book (*) *Into the Wild*. In 2015, Interior Secretary Sally Jewell announced that a mountain in this national park would be renamed to its Koyukon name. A 2013 improvement act that allowed a gas pipeline to run through this national park was sponsored by Senator Lisa Murkowski. For 10 points, identify this national park in Alaska, named for the highest mountain in North America.

ANSWER: **Denali** National Park and Preserve [accept **Mount McKinley** National Park]

<Michael Bentley, Geography - United States> ~23096~

PACE NSC 2022 - Round 08 - Bonuses

1. This god was commonly depicted eating from a plate of food and drinking from a cup at the same time. For 10 points each:

[10] Name this Roman deity noted for having two faces. He lends his name to the first month of the year.

ANSWER: **Janus**

[10] The Temple of Janus was built by this second king of Rome, who is credited with founding many of the institutions of Roman religion.

ANSWER: **Numa** Pompilius

[10] Janus once assaulted this nymph, whom he subsequently transformed into the Roman goddess of hinges.

ANSWER: **Cardea** [or **Carna**; or **Crane**; or **Cranea**]

<Michael Bentley, RMP - Greco-Roman Mythology> ~18549~

2. Lawrence Rainey used forensic analysis to identify which of three different typewriters were used to write sections of this poem, which itself features a typist character. For 10 points each:

[10] Name this poem first published in *The Criterion*, a literary magazine its author edited. The third section of this poem is titled "The Fire Sermon."

ANSWER: *The **Waste Land***

[10] *The Waste Land* was written by this Modernist poet.

ANSWER: T. S. **Eliot** [or Thomas Stearns **Eliot**]

[10] In 1971, this London publishing house, where Eliot was once an editor, released the facsimile edition of *The Waste Land*. This literary publisher of Ted Hughes and Seamus Heaney has a logo consisting of two F's.

ANSWER: **Faber** and Faber Limited

<Michael Bentley, Literature - British - Poetry> ~18195~

3. One of these languages in Suriname called Saramaccan is studied by linguist John McWhorter. For 10 points each:

[10] Name these natural languages that develop from pidgins and form through the contact of multiple languages. An example of one of these languages is a "Haitian" type.

ANSWER: **creole** languages [or **creoles**]

[10] This creole language uses the metaphor of "skru bilong han," or "screw of the arm," to say elbow. Along with English and Hiri Motu, it is one of Papua New Guinea's official languages.

ANSWER: **Tok Pisin** [prompt on New Guinea **Pidgin**]

[10] McWhorter posited that creole languages often lack the "inflectional" form of these units. "Bound" examples of these units cannot stand on their own as an English word.

ANSWER: **morphemes** [accept bound **morphemes**]

<Noah Sheidlower, Social Science - Linguistics> ~15090~

4. For 10 points each, answer the following about energy losses in electricity grids.

[10] Eddy currents can lead to energy losses in these devices consisting of two inductively coupled coils, which can "step up" or "step down" voltage between two circuits within a grid.

ANSWER: **transformers**

[10] Soft iron is used in transformers to reduce energy losses due to this phenomenon exhibited by ferromagnetic magnetization, in which the behavior of a system depends on past events.

ANSWER: **hysteresis** loop

[10] Litz wire is sometimes used in electrical grids to reduce energy losses due to this effect, in which AC current flow is concentrated towards the outside of a wire.

ANSWER: **skin** effect

<Joseph Krol, Science - Physics> ~18290~

5. This being has "employed his whole energies" in creating all the "external things" observed by the author.

For 10 points each:

[10] Name this being imagined in *Meditations on First Philosophy*, which argues against the possibility of this figure with the author's "clear and distinct" idea of a non-deceiving God.

ANSWER: evil **demon** [or evil **genius**; accept but do not reveal Descartes's **demon**]

[10] This French philosopher addressed his evil demon thought experiment in an argument often paraphrased as "I think, therefore I am."

ANSWER: René **Descartes**

[10] In the first Meditation, Descartes notes that he may only be dreaming of sitting in front of one of these things in his dressing gown. A Michel Foucault essay on the *cogito* argument is titled for "my body," a "paper," and this thing.

ANSWER: a **fireplace** [or **feu**; accept "My Body, This Paper, This **Fire**"]

<Jordan Brownstein, RMP - Philosophy> ~19133~

6. The murals at this location are poorly preserved because the artists waited for the lime to dry before coloring the plaster. For 10 points each:

[10] Identify this cave site commissioned by the Vakataka dynasty, whose walls include a depiction of the Bodhisattva Padmapani holding a blue lotus flower.

ANSWER: **Ajanta** Caves

[10] An 18-foot-high depiction of this deity as Mahadeva is located in another Indian cave site called Elephanta. This blue-throated deity is depicted dancing with many arms in a relief in Badami.

ANSWER: **Shiva** [accept **Nataraja**]

[10] Chola depictions of Shiva as lord of the dance were often made using this material via the lost wax technique. This material names a set of plaques looted from the Kingdom of Benin.

ANSWER: **bronze** [accept Benin **Bronzes**]

<Michael Bentley, Fine Arts - World Art> ~18726~

7. Ivan Goncharov wrote a popular travelogue about his journey to this country aboard the *Pallada* in 1852. For 10 points each:

[10] Identify this country that had been visited just a few months earlier by Commodore Matthew Perry, the man responsible for "opening" it to the West.

ANSWER: Japan [or Nippon; or Nihon]

[10] Japanese-Russian relations were strained when this Russian count negotiated a closer alliance with China. As chief plenipotentiary at Portsmouth, this first Prime Minister of Russia negotiated a favorable peace treaty ending the Russo-Japanese War.

ANSWER: Sergei Witte ("VEE-tih") [or Sergei Yulyevich Witte; or Sergius Witte]

[10] The Soviet Union agreed to join the war against Japan at this February 1945 conference, in part for Soviet possession of the Kuril Islands.

ANSWER: Yalta Conference [or Crimea Conference; or Argonaut Conference]

<Michael Bentley, History - European - 1900+> ~17887~

8. The International Space Station's ICARUS project helps track animals undergoing this process. For 10 points each:

[10] Name this behavior of animals moving relatively long distances, often on a seasonal basis.

ANSWER: migration

[10] Tags are used to track the migration of this insect that migrates from the northern U.S. to Mexico every year, where they lay their eggs on milkweed.

ANSWER: monarch butterfly [or Danaus plexippus; prompt on butterfly]

[10] One method for studying migration of animals analyzes the presence of radioisotopes of this element, whose calcium-like behavior allows it to be incorporated into bones, and which is incorporated into keratin via an unknown mechanism.

ANSWER: strontium [or Sr]

<Benjamin Chapman, Science - Biology> ~18772~

9. In Genesis 18, God and two angels physically visit the tent of Abraham. Answer the following about that encounter, for 10 points each.

[10] God tells Abraham that he will return in about a year and predicts that this specific event will occur, which is fulfilled in the opening verses of Genesis 21. A description is acceptable.

ANSWER: the birth of Isaac [accept Sarah having a child or son; accept Sarah becoming pregnant; prompt on birth or pregnancy without the mention of Sarah or Isaac; prompt on Abraham having a child or son by asking, "which child?"; do not accept answers about "Keturah," "Hagar," or "Ishmael"]

[10] After eating food that Abraham offered, God sends the two angels to this city to assess its state of wickedness. This city and Gomorrah are destroyed by sulfur and fire.

ANSWER: Sodom

[10] Once the two angels arrive in Sodom, they stay with this man, the cousin of Abraham.

ANSWER: Lot

<Jon Suh, RMP - Hebrew Bible> ~19211~

10. This playwright's work on the early TV show *Your Show of Shows* inspired his 1993 play *Laughter on the 23rd Floor*. For 10 points each:

[10] Name this playwright best-known for a comedy about roommates Oscar Madison and Felix Ungar titled *The Odd Couple*.

ANSWER: Neil Simon [or Marvin Neil Simon]

[10] In both the 1960s and 1980s, Simon had four separate plays being produced by theaters on this street. The final entry in Simon's *Eugene* trilogy is titled for being "bound" for this New York street.

ANSWER: Broadway [accept Broadway Bound]

[10] Simon wrote numerous plays set in one of these buildings, including one where Anne Ferris loses her Wimbledon tickets. Elyot and Amanda meet up again in one of these buildings in Noël Coward's *Private Lives*.

ANSWER: hotels

<Michael Bentley, Literature - American> ~18091~

11. Robert Olen Butler's *A Good Scent From a Strange Mountain* speaks to the unique struggles of immigrants from this country to the US. For 10 points each,

[10] Name this country, many of whose so-called "boat people" settled in the Gulf Coast.

ANSWER: Vietnam [or South Vietnam; or Socialist Republic of Vietnam]

[10] Joseph Cao became the first Vietnamese-American elected to the US House when he won a 2008 election in this state. Levees in this state's largest city failed during Hurricane Katrina.

ANSWER: Louisiana

[10] Cao volunteered at the non-profit Boat People SOS, which helped publicize abuses of Vietnamese and Chinese workers in this territory. The 2015 *Tuaua* case ruled that birthright citizenship did not apply to people born here, unlike in Guam.

ANSWER: American Samoa [or Amerika Sāmoa; do not accept or prompt on "Samoa"]

<Elaijah Lapay, History - Cross, Historiography, and Miscellaneous> ~16951~

12. This character owns a spoon with the phrase "Ust-Izhma" engraved on it. For 10 points each:

[10] Name this character, who stands in line to receive food for the former film director Tsezar. This "zek" shares his living quarters with Alyosha the Baptist.

ANSWER: Ivan Denisovich Shukhov [accept either underlined portion; accept One Day in the Life of Ivan Denisovich or Odin den' Ivana Denisovicha; prompt on Denisovich]

[10] *One Day in the Life of Ivan Denisovich* is a novel by this Russian author.

ANSWER: Aleksandr Solzhenitsyn

[10] Before being sent to lay bricks at a power station, Ivan sews part of one of these specific things into his mattress. Peter Kropotkin wrote a book titled for the metaphorical "conquest" of these things.

ANSWER: a loaf of bread [accept either underlined portion; accept *The Conquest of Bread*]

<Wonyoung Jang, Literature - European - Long Fiction> ~17470~

13. Biographer Arthur Lubow claims that the Marquis de Sade was a "personal hero" for this artist. For 10 points each:

[10] Name this artist who used mannequins to stage the explicit *Mr. and Mrs. Woodman* photos. This Surrealist is better known for his photograms and the 1924 work *Le Violon d'Ingres* ("ANG-ruh").

ANSWER: Man Ray [or Emmanuel Radnitzky]

[10] Man Ray's protege Lee Miller posed for a photograph in this man's bathtub. A photomontage by John Heartfield imagines this politician with a spinal column made of coins.

ANSWER: Adolf Hitler

[10] Man Ray photographed this woman, also the subject of a Rose Period portrait by Pablo Picasso. Her own artistic achievements include *The Autobiography of Alice B. Toklas* and the phrase "Rose is a rose is a rose is a rose."

ANSWER: Gertrude Stein

<Michael Bentley, Fine Arts - Photography> ~18124~

14. Answer the following about the adoption of Islam in Africa, for 10 points each:

[10] Among the earliest empires to adopt Islam was Kanem-Bornu, which was centered around this body of water. A "Mega" version of this body of water existed during the African humid period.

ANSWER: Lake **Chad**

[10] The Sokoto Caliphate was founded after Usman dan Fodio led several of these Islamic religious wars to unite Hausaland ("how-suh-land").

ANSWER: **ijihad**

[10] They are not Berbers, but wandering saints known as *marabouts* spread Islam to this ethnic group, who were ruled at one point by kings termed *burba*. This is the majority ethnicity of Senegal.

ANSWER: **Wolof** [or **Jolof**]

<Hari Parameswaran, History - World - African> ~19074~

15. In this book, the narrator's father tells him that true friends can only be found "if you lock them together in a room with no food for a week." For 10 points each:

[10] Name this book, in which the protagonist's father Vladek is shown wearing a pig mask in sections where he is pretending to blend in with other Poles.

ANSWER: **Maus** [or **Maus**: *A Survivor's Tale: My Father Bleeds History*; or *The Complete Maus*; or **Maus**: *And Here My Troubles Began*]

[10] Art Spiegelman's *Maus* was the first Pulitzer Prize-winning novel of this type, which adapts the comic book format to longer-form narratives.

ANSWER: **graphic** novels

[10] Similarly to *Maus*, this graphic novel focuses on its narrator's complex relationship with their father Bruce, whose death in an apparent suicide is attributed to their closeted homosexuality.

ANSWER: **Fun Home** [by Alison Bechdel]

<Michael Bentley, Literature - World and Miscellaneous> ~18021~

16. A source of these chemicals, aluminum phosphide, is sold in rounded tablets and pellets that release hydrogen phosphide over a period of 3 to 5 days. For 10 points each:

[10] Name these chemicals that are the namesake of, and used in, a method of pest control where gaseous pesticides are released into an enclosed area.

ANSWER: **fumigants** [prompt on fumigation with "what are the chemicals used in it called?"]

[10] A fumigant, which is a poisonous gas that diffuses into objects, is distinct from these other substances like smoke that consist of fine solid or liquid droplets suspended in a gas.

ANSWER: **aerosols**

[10] Vikane, or sulfuryl fluoride, is used to fumigate residential dwellings because of its ability to penetrate this material and kill termites. Knots can reduce this material's strength.

ANSWER: **wood** [or **lumber** or **timber**]

<Benjamin Chapman, Science - Chemistry> ~18937~

17. A *New Yorker* profile of this person opened by asking, "What is one to think of the clothes the twenty-nine-year-old pianist ... wears when she performs?" For 10 points each:

[10] Identify this Chinese classical pianist who released a recording of Sergei Rachmaninoff's Piano Concerto No. 2 on Deutsche Grammophon in 2011.

ANSWER: Yuja **Wang** [or **Wang** Yuja]

[10] A televised 1976 Yin Chengzong performance of this Beethoven symphony was hailed as signaling the end of the Cultural Revolution. This symphony opens with a short-short-short-long motif representing Fate knocking at the door.

ANSWER: Symphony No. **5** by Ludwig van Beethoven in C minor [or Beethoven's **Fifth**]

[10] Wang studied at the Curtis Institute of Music in this American city. This city's Big Five symphony orchestra performs in the Kimmel Center.

ANSWER: **Philadelphia** [or **Philly**]

<Michael Bentley, Fine Arts - Music - 1900 to 1970> ~18736~

18. John W. Raymond, the head of a newly-created US military branch responsible for defending this region, admits that he has seen Steve Carell's Netflix show parodying him. For 10 points each:

[10] Name this general region where "junk" threatens to damage communications infrastructure and the ISS.

ANSWER: outer **space** [accept **Space Force**; accept answers like Earth's **orbit**]

[10] Many space mining companies are incorporated in this tax haven. Grand Duke Henri is the head of state of this country, a founding member of the European Coal and Steel Community.

ANSWER: **Luxembourg** [or Grand Duchy of **Luxembourg**]

[10] The US is attempting to update the Outer Space Treaty through these accords. These accords share their name with NASA's planned program to return astronauts to the Moon by 2025.

ANSWER: **Artemis** Accords [accept **Artemis** program]

<Michael Bentley, Current Events - World> ~18123~

19. This specific way of sampling is modeled with the hypergeometric distribution rather than the binomial one. For 10 points each:

[10] Name this method involved in creating a simple random sample. The probability of drawing a specific object using this method of sampling equals the sample size over the population.

ANSWER: sampling **without replacement** [or drawing **without replacement**]

[10] Given fifty-fifty odds, the chance of k successes in n trials is the same as the chance for this many successes. The factorial of this number and the factorial of k comprise the denominator of binomial coefficients. Provide your answer in terms of n and k .

ANSWER: **n minus k**

[10] All entries in this construct are binomial coefficients and are either one or the sum of the two numbers immediately above it.

ANSWER: **Pascal's triangle**

<Kevin Wang, Science - Math> ~19321~

20. The unappetizing Raines sandwich — "two pieces of bread with a brick between" — was developed to skirt an 1896 law in this state which restricted liquor sales. For 10 points each:

[10] Identify this state. During the Progressive Era, Mayor William L. Strong combated police corruption in a city in this state.

ANSWER: **New York**

[10] New York's Raines Law closed the "golden hour" loophole that allowed for saloons to sell alcohol on this day. Blue laws forced businesses to close on this day of the week out of respect for the Sabbath.

ANSWER: **Sunday**

[10] The Raines sandwich was publicized by this social reformer whose pictures of tenement slums in *How the Other Half Lives* attracted the interest of Theodore Roosevelt.

ANSWER: Jacob **Riis** [or Jacob August **Riis**]

<Michael Bentley, History - American - 1865-1945> ~17921~

21. One film by this director cuts to a montage of actresses sadly rejecting a casting director's request that they cut off their hair. For 10 points each:

[10] Name this Iranian director who made a film where cinephile Hossain Sabzian pretends he's director Mohsen Makhmalbaf ("MAKH-mall-boff") titled *Close-Up*.

ANSWER: Abbas **Kiarostami** ("kee-ruh-SHTAM-ee")

[10] *Close-Up* opens with four characters sitting in one of these things, a common motif for Kiarostami. Steve McQueen's character in *Bullitt* is in one of these things in an extended chase scene around San Francisco.

ANSWER: a **car** [accept a **taxi** or an **automobile**]

[10] Kiarostami's film *Certified Copy* is set in this country. In a 1948 film from this country, the protagonist's livelihood of putting up advertisements is threatened when his bike is stolen.

ANSWER: **Italy** [or **Italia**; or **Italian Republic**] (The film is *Bicycle Thieves*.)

<Michael Bentley, Fine Arts - Film> ~19114~