

PACE NSC 2022 - Round 12 - Tossups

1. This novel was intended to be analogous to the *Inferno* in a trilogy that was interrupted by its author's suicide by starvation. In a 1944 study of this book's author, Vladimir Nabokov claimed that this novel exemplifies a vulgarity called "poshlost" ("posh-LOST"). The line "before us the future looms dark, and that we can scarcely..." ends this unfinished novel. Some characters in this novel believe that its protagonist is the one-armed, one-legged Captain (*) Kopeikin ("koh-PAY-kin"). This novel's protagonist, who leaves town after forging the will of Khlobuyev's ("CLOB-oo-yev's") aunt, signs contracts with landowners like Manilov to help sell macabre deeds to the title things. The conman Chichikov appears in, for 10 points, what Nikolai Gogol novel about selling the title deceased people?

ANSWER: Dead Souls [or Mjörtvyje dúshi]

<Noah Sheidlower, Literature - European - Long Fiction> ~17325~

2. Observations of distinctly pitted omar indicate the movement of these things relative to the Belcher Group. Hexagonal coral fossils are visible in the state stones of Michigan, which were distributed by these things. Many features formed by these things are named for examples in the British Isles. As water becomes saturated with byproducts of the (*) movement of these things, it takes on a distinct turquoise color. The course of these things is indicated by the position of erratics relative to where they were plucked. These things can advance through basal sliding, but the annual mass balance means that most are retreating. U-shaped valleys record the movement of, for 10 points, what large ice masses?

ANSWER: glaciers [accept ice sheets]

<Kevin Wang, Science - Earth> ~24016~

3. The first movement of Carl Nielsen's Fifth Symphony directs this instrument to play *ad libitum* in order to disrupt the rest of the orchestra. Béla Bartók directed players of this instrument to produce a lower, more hollow sound in the opening solo of the second movement of his *Concerto for Orchestra*. Throughout the "invasion theme" of Dmitri Shostakovich's Leningrad Symphony, this instrument plays a relentless (*) *ostinato* rhythm. This instrument, which produces its characteristic sound thanks to two strings stretched across its bottom head, repeats an *ostinato* rhythm 169 times throughout Maurice Ravel's *Bolero*. For 10 points, name this percussion instrument commonly used to produce rimshots and drum rolls.

ANSWER: snare drum [or side drum; prompt on drums before "drum"; prompt on percussion before "percussion"]

<Jonathan Magin, Fine Arts - Music - 1900 to 1970> ~23721~

4. An event in this city either called the Michaelmas Daisy Revolution or Aster Revolution briefly brought a Social Democratic government to power. A Communist then took control of this city for 134 days on the slogan, "Russia will save us." The statue "Stalin's Boots" in this city memorializes a rebellion that temporarily abolished the AVH secret police. Bela Kun once held power in this city. In 1867, this modern-day city was made the easternmost of two imperial capitals in the (*) Ausgleich. This city became the capital of a greatly diminished country through the 1920 Treaty of Trianon. A government based in this city withdrew from the Warsaw Pact under Imre Nagy in 1956, prompting a Soviet invasion. For 10 points, name this capital of Hungary.

ANSWER: Budapest [accept Buda or Pest]

<Michael Bentley, History - European - 1900+> ~23017~

**5. High-mannose, complex, and hybrid oligosaccharides ("OH-lee-go-SACK-uh-rides") are attached to a compound known by this letter in the ER and Golgi apparatus in a process believed to help monitor protein folding. A lipid-linked oligo·saccharide is transferred to proteins in a form of gly·co·syl·ation named for this letter, which occurs at asparagine residues. Signal peptides are usually found on the protein terminal known by this letter, which is typically the side of the protein formed (*) first during translation and is opposite the C-terminus. This letter denotes the element found with carbon in purine (PURE-
een) and pyrimidine (peer-IH-mih-deen) rings. For 10 points, name this letter representing the element that microbes in legume (LEG-yoom) root nodules "fix" into usable forms like ammonia.**

ANSWER: N [accept N-linked glycosylation or N-terminus]

<Eric Yin, Science - Biology> ~23937~

6. *Description acceptable.* In a late stage of this event, the ornery Hraf-haf (huh-ROFF-hoff) refuses to assist a newcomer until they put him in a good mood. This event is attended by forty-two gods with names like "Stinky Face" and "Crusher of Bones," which are all recited from memory. A detailed account of this event is given in Spell 125 of the *Book of Coming Forth By Day*. The setting for this event is sometimes called the Hall of (*) Two Truths. The "Field of Reeds" was the destination of successful participants in this event; others fell victim to a composite monster with the head of a crocodile, Ammit. For 10 points, a heart was weighed against the feather of Ma'at during what proceeding from Egyptian mythology, which decided the fate of a soul?

ANSWER: judging the dead [accept any answer involving determining the virtue of the dead; or judging the soul; accept weighing of the heart before "heart" is read; accept the judgment of Osiris]

<Michael Bentley, RMP - World Mythology> ~23720~

7. A hotel converted from one of these buildings is home to the red-and-white colored Sunken Lounge restaurant and a restored split-flap display. A building with this primary purpose contains a five-story indoor garden of tropical trees and shrubs called the Shiseido Forest Valley and was designed by Moshe Safdie for Singapore. Four thin concrete shells support the tall windows of one of these buildings in New York designed by an architect who also created a vehicle called the (*) mobile lounge for one in Virginia. An extremely-long building of this type was constructed on an artificial island in Osaka and was designed by Renzo Piano. Eero Saarinen designed one of these buildings for TWA. For 10 points, name these buildings exemplified by New York's JFK.

ANSWER: airport [accept airport terminal; or flight center; prompt on concourse or terminal]

<William Yaeger, Fine Arts - Architecture> ~16231~

8. This character's friends believe that an invitation he extends will be "nothing more wonderful than the murder of a mouse in an air pump." This man, who was engaged to Sylvia Ward before she died on their wedding night, owns a bust of Hippocrates that proclaimed, "Forbear!" when his chambermaid attempted to dust an ancient book of magic. At the end of a story, this man rejects ever drinking again from a substance that caused a withered (*) rose to return to full bloom. This man, whose "venerable friends" include Mr. Gascoigne ("gas-COIN"), Colonel Killigrew and the Widow Wycherly, titles a story in which a vase containing water from the Fountain of Youth is broken. For 10 points, name this doctor whose "Experiment" titles a story by Nathaniel Hawthorne.

ANSWER: Dr. Heidegger [accept "Dr. Heidegger's Experiment"]

<Michael Bentley, Literature - American> ~22946~

9. Barbara Blaine founded a non-profit called SNAP following bad experiences with this organization. In 2019, the head of this organization defended Juan Barros Madrid against "calumny." This organization ran "The Home" in Tuam, where a mass grave was found, and a similar institution that forced Philomena Lee to give up a child for adoption. The documentary *Sex in a Cold Climate* chronicled survivors of a (*) "laundry" run by this organization. Robby Robinson led a team of *Boston Globe* reporters that won a 2002 Pulitzer for uncovering a scandal in this organization where criminals were repeatedly transferred to new parishes. For 10 points, name this institution plagued by sex scandals involving its priests. ANSWER: Roman Catholic Church [accept The Vatican or The Papacy; accept more specific answers such as the Sisters of the Sacred Hearts of Jesus and Mary or Chigwell Sisters; prompt on the Christian church] <Michael Bentley, History - Cross, Historiography, and Miscellaneous> ~23116~

10. The Syrian general Naaman unfavorably compared one of these places to Abana and Pharpar, which are counterparts from his homeland. Jacob wrestled with an angel next to one of these places called Jabbok. Moses allowed the tribes of Reuben, Gad, and half of Manasseh to settle to the east of one of these places under the condition that they fight on the frontlines ahead of the other tribes. Amos 5:24 ("Chapter 5, Verse 24"), which calls for justice to (*) "roll down" like these places, was quoted in Martin Luther King Jr.'s "I Have a Dream" speech. One of these features emerged out of the Garden of Eden and split into four branches. For 10 points, in order to enter the Promised Land, Joshua and the Israelites crossed what type of natural feature called the Jordan? ANSWER: rivers [accept equivalents like streams or brooks; accept tributary; accept river fords; prompt on waters by asking, "in what kinds of places?"] <Jon Suh, RMP - Hebrew Bible> ~24179~

11. An artist who revived interest in this movement with his 1955 Sonsbeek Pavilion had earlier designed a Z-shaped object called the Zig-Zag. A co-founder of this movement fond of tesseracts made a series of paintings where a grazing cow becomes increasingly abstract. After joining this movement, one architect modified the colors in his *Red and Blue Chair*, which ended up being furniture in his (*) *Schröder House*. A leader of this movement moved to using colored rather than black lines in his *Lozenge Composition*. Bright, primary colors are characteristic of Gerrit Rietveld's buildings in this movement and the painting *Broadway Boogie Woogie*. For 10 points, name this art movement whose co-founders included Piet Mondrian. ANSWER: De Stijl ("duh STYLE") [or The Style; or Neoplasticism] <Anson Berns, Fine Arts - Painting - European> ~15794~

12. During an auction in this town conducted by Borthrop Trumbull, a young man buys a painting of *The Supper at Emmaus* for the wife of one of its leading citizens. At the start of a novel set here, a young woman's passion for improving cottages for tenant farmers sparks the interest of James Chettam. A wealthy banker leaves this town in disgrace after being blackmailed by his former business partner John Raffles. This town's mayor, Mr. (*) Vincy, has two children: Fred, who marries Mary Garth, and Rosamond, who marries Dr. Tertius Lydgate. The heroine of a novel named for this town falls in love with Will Ladislav after her disastrous marriage to Edward Causabon. For 10 points, name this setting of a novel about Dorothea Brooke by George Eliot. ANSWER: Middlemarch <Jonathan Magin, Literature - British - Long Fiction> ~24204~

13. In 2019, this state's tax-exempt Ensign Peak Advisors was revealed to control one hundred billion dollars in assets. It's not Colorado, but between 2010 and 2020, this state's population grew faster than any other, fueled in part by tech workers moving to its Silicon Slopes region. This state's Wasatch Front has some of the worst air quality in the US. In March 2022, this state's Republican governor (*) Spencer Cox vetoed a bill banning transgender kids from playing girls' sports. A Republican Senator from this state yelled "this is what you've gotten, guys" to his colleagues during the January 6th attack and ran for President in 2012. For 10 points, name this state whose senators include Mitt Romney, a member of its majority Mormon faith.

ANSWER: Utah

<Michael Bentley, Current Events - U.S.> ~22877~

14. In 2021, a form of this phenomenon was observed in a 10-Tesla environment by a group at MIT that has studied its "spin-triplet" type. The main industrial uses of niobium-tin and niobium-titanium alloys rely on this phenomenon. This phenomenon, which is observed in many cuprate-perovskite ceramics, was first observed in mercury by (*) Heike Kamerlingh Onnes ("HIKE-ur CAH-mur-ling ON-iss"). In materials exhibiting this phenomenon, like YBCO, electrons couple into Cooper pairs according to BCS theory. This phenomenon causes the expulsion of magnetic fields in the Meissner ("MICE-nur") effect, allowing materials to magnetically "levitate" at low temperatures. For 10 points, name this phenomenon observed below the critical temperature, in which a material's electrical resistance disappears.

ANSWER: superconductivity [or superconductors; accept Type I superconductors or Type II superconductors]

<Michael Bentley, Science - Physics> ~22924~

15. Leta Stetter Hollingworth's longitudinal study on twelve of these people concluded that they have an increased desire for personal privacy. Ruthsatz and Stephens examined the family link between these people and people with autism. A cohort of 1,500 of these people were named "Termites" for the man who led a study on them, Lewis Terman. In an 1869 book titled for these people, Francis Galton argued that they possessed "a (*) [hereditary] ability that was exceptionally high and at the same time inborn." 2-year-old Kashe Quest joined an organization for these people that requires a score above 132 on a certain test; that organization is called Mensa. For 10 points, name these people who do well on the Stanford-Binet intelligence test.

ANSWER: geniuses [accept answers such as child prodigies or gifted people; accept answers like high IQ individuals or intelligent people before the end; accept *Hereditary* Geniuses; prompt on children]

<Michael Bentley, Social Science - Psychology> ~22999~

16. At a battle on this island, nursing students who made up the "Lily Corps" were duped into giving medical support to wounded soldiers in a cave. This island contains the majority of military bases that were the subject of the 1960 Anpo protests. Operation Ten-Go attempted to send naval relief to soldiers fighting on this island, though it ended with the (*) *Yamato* being sunk. Though Richard Nixon returned this island in 1972 to its previous owner, it still is home to several American military bases. The prevalence of *kamikaze* attacks during a battle on this island led to it being termed the "typhoon of steel." For 10 points, name this Ryukyu island which was the site of the bloodiest battle of World War II's Pacific theater.

ANSWER: Okinawa

<Hari Parameswaran, History - World - Asian> ~23978~

17. In languages where generic parameters are restricted to these entities, primitives must be boxed before use. The RAII ("R-A-I-I") paradigm governs the lifetime of these entities in many languages without garbage collectors, which deallocate their memory by calling destructors. Common design patterns involving these entities include factories and the use of paired (*) getters and setters. The equality operator cannot be used to compare these entities, which must be passed into functions by reference rather than by value. These entities have access to methods from all interfaces implemented by the class they are an instance of. Java and C++ ("C plus plus") are programming languages "oriented" around, for 10 points, what basic programming entities?

ANSWER: objects [accept object-oriented programming; prompt on OOP; prompt on types; prompt on interfaces or classes before read]

<Kevin Wang, Science - Computer Science> ~24163~

18. The firing of four employees of the Matson Navigation Company in this decade sparked a bloody strike by the ILA, whose leaders included Harry Bridges. During a bloody labor incident in this decade, photojournalist James Kilpatrick showed security brutally beating up Richard Frankenstein. During this decade, disgruntled workers under Walter Reuther ("ROO-thur") fought the Battle of the (*) Overpass against Ford, whose employees had staged a "hunger march" earlier in this decade. Frances Perkins became Secretary of Labor in this decade. Collective bargaining rights were further enforced by the creation of the National Labor Relations Board in this decade. For 10 points, the Wagner Act improved the status of unions in what decade during the Great Depression?

ANSWER: 1930s [prompt on 30s]

<Hari Parameswaran, History - American - 1865-1945> ~22499~

19. Stefan Weber has made a career out of "hunting" for Germans who have engaged in this practice, including Green Party politician Annalena Baerbock. The website "[This Practice] Today" has reported on how the case of Paul McCrory may result in changes in NFL concussion protocols. In 1987, allegations that (*) Joe Biden had engaged in this practice forced him to drop out of the presidential campaign. A *Guardian* piece on engaging in this practice invented the term Rogeting ("row-JAY-ing"), named for a reference work. The ProQuest database is used as a reference for a feature in Grammarly that detects this practice. For 10 points, name this practice that might involve the verbatim reproduction of someone else's research into an essay.

ANSWER: plagiarism [accept answers like copying without citation or copyright infringement; prompt on academic dishonesty or theft or appropriation; prompt on cryptomnesia before mentioned]

<Michael Bentley, Other - Other Academic and General Knowledge> ~23276~

20. In one poem, this author writes that "the same stream of life that runs through my veins night and day runs through the world." This author admits that "drunk with the joy of singing I forget myself and call you friend" in the second poem of a collection that elsewhere declares "let me carry the pangs of this sorrow in my dreams and in my wakeful hours" in the poem "Let Me Not Forget." This author describes a place "where the clear stream of reason has not lost its way" and "where (*) knowledge is free" in a poem that declares "let my country awake." This author wrote that "thou hast made me endless, such is thy pleasure" in a 1910 collection whose introduction is by W. B. Yeats. *Gitanjali* ("git-an-JAR-lee") is by – for 10 points – what Bengali poet?

ANSWER: Rabindranath Tagore ("tah-GORE")

<Michael Bentley, Literature - World and Miscellaneous> ~23412~

21. In applications like anti-lock braking systems, this specific phenomenon is usually generated by Gunn diodes. In 1955, James Lovelock used this specific phenomenon to reanimate hamsters. This specific phenomenon was intensified using ammonia in a device invented by Charles Townes. While working at Raytheon, Percy Spencer designed a device that creates this type of radiation using a cavity (*) magnetron. Due to its high dipole moment, water strongly absorbs this type of radiation. This type of radiation, which has a typical wavelength of about a centimeter, is used in diathermy, or dielectric heating. Radio waves are slightly less energetic than, for 10 points, what region of the electromagnetic spectrum used to heat food in namesake "ovens?"

ANSWER: microwaves [or microwave radiation; accept microwave ovens or masers; prompt on EM radiation or EM radiation or EM waves or electromagnetic waves; prompt on radio waves or UHF waves]
<Joseph Krol, Science - Physics> ~23562~

PACE NSC 2022 - Round 12 - Bonuses

1. Nelson Hackett's case helped introduce a clause into this treaty protecting slaves from extradition. For 10 points each:

[10] Name this treaty, which addressed several border disputes between the U.S. and Canada. This 1842 treaty is partially-named after John Tyler's Secretary of State.

ANSWER: **Webster-Ashburton** treaty

[10] During the 1844 presidential election, this man called for the U.S.-Canada border to be shifted upwards to 54 degrees and 40 minutes. This man was president during the Mexican-American War.

ANSWER: James Knox **Polk** [prompt on "**Young Hickory**"]

[10] The disputed Machias Seal Island contains one of these facilities built by the Canadian government in the 1830s. Alexander Hamilton lobbied Congress to build one of these facilities in Cape Hatteras.

ANSWER: **lighthouses** [accept Cape Hatteras **Light**]

<Hari Parameswaran, History - American - Pre-1865> ~18279~

2. For 10 points each, identify the following about American artist Florine Stettheimer.

[10] Stettheimer used this term to describe a series of paintings of New York City landmarks such as Fifth Avenue. Cows drink from a stream in front of one of these buildings in Wiltshire in a painting by John Constable.

ANSWER: **cathedrals** [accept Salisbury **Cathedral** or **Cathedrals of New York**; prompt on **churches**]

[10] In 1923, Stettheimer painted a portrait of this artist dressed as his alter ego Rrose Sélavy. He created the readymade *Fountain*.

ANSWER: Marcel **Duchamp** [or Henri-Robert-Marcel **Duchamp**]

[10] Stettheimer's reputation was revived in the 1980s by an essay by this art historian praising Stettheimer's *Cathedrals of New York* series. She revolutionized the art world with her 1971 essay, "Why Have There Been No Great Women Artists?"

ANSWER: Linda **Nochlin** [or Linda **Weinberg**]

<Michael Bentley, Fine Arts - Painting - U.S.> ~18780~

3. For 10 points each, answer the following about scientists who worked on the mechanical equivalent of heat.

[10] A series of experiments showing that friction caused water to heat up were conducted in the 1840s by this British scientist, who names the SI unit for energy.

ANSWER: James Prescott **Joule**

[10] Joule feuded over priority for demonstrating the mechanical equivalent of heat with a German scientist of this surname. For codeveloping the nuclear shell model, a scientist with this married surname became the second woman to win the Nobel Prize for Physics in 1963.

ANSWER: **Mayer** [accept Maria Goeppert **Mayer** or Julius Robert von **Mayer**; accept Maria **Goeppert**]

[10] In 1862, the Mayer-Joule feud was resurrected at a public lecture given by this physicist, who names the effect in which colloids scatter light.

ANSWER: John **Tyndall** [accept **Tyndall** effect]

<Joseph Krol, Science - Physics> ~18145~

4. In 1971, Arthur Janov predicted that this form of psychotherapy would supersede all others. For 10 points each:

[10] Name this form of psychotherapy which involves performing the title action to deal with pain. It was inspired by seeing a man yell "Mommy! Daddy!" and writhe on the ground.

ANSWER: **primal scream** therapy [or **primal** therapy; prompt on screaming or scream therapy]

[10] Primal scream therapy is discouraged in favor of this form of therapy which tries to change negative patterns of thought through gradual exposure.

ANSWER: **cognitive behavioral** therapy [or **CBT**]

[10] Janov claimed that primal scream therapy could "cure" people of this trait, which was not eliminated from the *DSM* until 1974. Christian parents sometimes send teens with this trait to "conversion therapy" camps.

ANSWER: **homosexuality** [accept answers like being **gay** or **lesbian** or gender **queer** or **nonbinary**; prompt on sexual orientation]

<Benjamin Chapman, Social Science - Psychology> ~18812~

5. For 10 points each, answer the following about Ugo Foscolo's ("OO-go FOSS-co-lo's") novel *The Last Letters of Jacopo Ortis*.

[10] Foscolo wrote the novel after this leader failed to liberate Venice. Pierre Bezukhov plans to kill this French leader in *War and Peace*.

ANSWER: **Napoleon Bonaparte** [accept either name; or **Napoleon** I; or Napoleone di **Buonaparte**]

[10] The novel centers on Jacopo's letters, which are received by his friend Lorenzo. Similarly, a man called Lorenzo receives letters from Fra Cristoforo ("criss-TOFF-oh-roh") in this other novel, in which Don Rodrigo plans to kidnap Lucia ("loo-CHEE-ah") with help from a crook called "The Unnamed."

ANSWER: *The **Betrothed*** [or *I **Promessi Sposi***]

[10] Foscolo's novel was inspired by this author's novel *Julie; or, The New Heloise*, which was perhaps the biggest-selling novel of the 1700s. This author also wrote *Émile* ("AY-meel").

ANSWER: Jean-Jacques **Rousseau**

<Joseph Krol, Literature - European - Long Fiction> ~18817~

6. This spice was so valuable that the Dutch ceded the island of Manhattan for the small island of Run, a major producer of it. For 10 points each:

[10] Identify this spice. A "wooden" version of this spice was supposedly created by unscrupulous traders in Connecticut, where it is an unofficial state nickname.

ANSWER: **nutmeg** [prompt on Myristica fragrans; accept The **Nutmeg** State; do not accept or prompt on "mace"]

[10] The nutmeg trade was controlled by a Dutch company named for this geographic location. The British company named for this location effectively ruled the subcontinent following the Battle of Plassey.

ANSWER: **East Indies** [accept **East India** or Dutch **East Indies** Company or British **East Indies** Company or **Oostindische**; prompt on the Indies or India]

[10] Plants obtained from the Dutch East India Company were used in the botanical garden at the university in this city, established in 1575. Rembrandt was born in this city.

ANSWER: **Leiden** [or **Leyden**]

<Michael Bentley, History - European - 1500-1900> ~17888~

7. The Nigerian city of Rosewater appears in Tade ("tad-AY") Thompson's *Wormwood Trilogy*, which is in this genre. For 10 points each:

[10] Name this broad genre. Nnedi Okorafor's novella *Binti* won both Hugo and Nebula awards, as did works by writers in this genre like Isaac Asimov.

ANSWER: science fiction [or sci-fi; accept speculative fiction or hard sci-fi or other subdivisions of sci-fi; prompt on fantasy]

[10] Nii ("nee") Parkes' sci-fi/fantasy novel *The Tail of the Blue Bird* is set in a village in this country. Marjorie visits this African country's slave-linked "Castle" in the 2016 novel *Homegoing* by Yaa Gyasi.

ANSWER: Republic of Ghana

[10] The Sufi-inspired sci-fi series *Canopus in Argos* was written by this Nobel Laureate, who wrote a 1962 novel about Anna Wulf's colored notebooks after growing up in Rhodesia.

ANSWER: Doris Lessing [or Doris May Lessing or Doris May Tayler]

<Joseph Krol, Literature - World and Miscellaneous> ~18792~

8. This thinker used the image of "The People's Stick" in a critique of Marxist dictatorship of the proletariat. For 10 points each:

[10] Name this Russian collectivist philosopher whose works like *God and the State* influenced later thinkers like Kropotkin and Malatesta.

ANSWER: Mikhail Bakunin

[10] Bakunin, Malatesta, and Kropotkin all espoused forms of this political philosophy, described by Pierre-Joseph Proudhon as "Order Without Power." The title of a Bakunin work contrasts this philosophy with *Statism*.

ANSWER: anarchism [or anarchy; accept *Statism* and Anarchy]

[10] A very different strain of anarchism promoted by Murray Rothbard blends it with this economic system. Unlike in collectivist anarchism or socialism, this system has private ownership and a free market.

ANSWER: capitalism [or anarcho-capitalism; accept word forms like capitalist or anarcho-capitalist]

<Anson Berns, RMP - Philosophy> ~15453~

9. Bruce Chatwin and a Russian companion go searching for these things in a 1987 travelogue. For 10 points each:

[10] Name these "celebrations of Country" sometimes called the "Way of the Law." The Seven Sisters is the name for large examples of these routes that crisscross Australia.

ANSWER: songlines [or dreaming track; or creation track; prompt on tracks or trails]

[10] Chatwin had earlier written a travelogue of this region, whose northern border is sometimes defined by the Huincul Fault. An American outdoor clothing company is named for this southernmost section of South America.

ANSWER: Patagonia [accept *In* Patagonia; prompt on Southern Argentina or Southern Chile; anti-prompt on Tierra del Fuego]

[10] Chatwin's book *Winding Paths* includes several photos taken amidst the "merciless sun" of this West African country home to the adobe Great Mosque of Djenné.

ANSWER: Mali [or Republic of Mali]

<Michael Bentley, Geography - World> ~18546~

10. For 10 points each, answer the following about the family of Johann Sebastian Bach:

[10] Bach's son Johann Christian spent so much time in this country's capital that he was crowned its own "Bach." After moving to this country, George Frideric Handel wrote *Water Music* and *Music for the Royal Fireworks* while serving in the court of King George I.

ANSWER: **England** [or the **United Kingdom**; or Great **Britain**]

[10] Johann Christian was born to this composer, who became J. S. Bach's second wife in 1721. Bach presented this composer with two handwritten "notebooks" which are usually named for her.

ANSWER: **Anna** Magdalena Bach [or **Anna** Wilcken]

[10] In contrast to Johann Christian being the "London Bach," Bach's other son Carl Phillip Emmanuel became known as the "Hamburg Bach" after succeeding this Baroque composer of *Tafelmusik* as the city's *Kapellmeister*.

ANSWER: Georg Philipp **Telemann**

<Jonathan Magin, Fine Arts - Music - Classical> ~18950~

11. Faraday cups and electron multipliers are used as detectors in this technique. For 10 points each:

[10] Name this analytical technique that measures molecular weight by analyzing the m-to-z ratio of ions.

ANSWER: **mass spectrometry** [or **mass spectroscopy**]

[10] When performing mass spec on this element, it has an M and M-plus-2 peak in a 3-to-1 ratio. It is often added to swimming pools to disinfect them.

ANSWER: **chlorine** [or **Cl**]

[10] In this form of mass spec, ions with equal charge are accelerated to equal kinetic energies. Thus, the velocity of the ions, which is calculated by measuring this technique's namesake parameter, can be used to find the mass-to-charge ratio.

ANSWER: **time-of-flight** mass spectrometry [or **TOF-MS**]

<Benjamin Chapman, Science - Chemistry> ~19138~

12. For 10 points each, identify the following about the Salé Corsairs:

[10] The Salé Corsairs were based out of New Salé, a city founded after Philip III expelled these people from Spain in 1610. This Spanish term refers to the Muslims who stayed in Spain after the reconquest and converted to Christianity.

ANSWER: **Moriscos** [do not accept terms like "Moors" or "Muslims" that are not Spanish]

[10] New Salé was on a "coast" of this name. The US fought a series of wars against states of this collective name based in Tunis and Tripoli.

ANSWER: **Barbary** [accept **Barbary** Coast or **Barbary** Wars; accept **Berber** or **Berber**]

[10] Salé may have been contemporaneous with another "pirate utopia" called Libertalia in this modern-day country. In the 19th century, this country was ruled by Queen Ranavalona I.

ANSWER: **Madagascar** [or Republic of **Madagascar**; or **Madagasikara**]

<Michael Bentley, History - Cross, Historiography, and Miscellaneous> ~14546~

13. A character created by this author is taught to read by café owner Terasina Vidavarri using a book on how to write a good business letter. For 10 points each:

[10] Name this American author who created the con artist Dove Linkhorn in his novel *A Walk on the Wild Side*.

ANSWER: Nelson **Algren** [or Nelson Ahigren **Abraham**]

[10] Frankie Machine in Nelson Algren's *The Man With the Golden Arm* develops a dependency on this general class of stuff. Soma is a fictional example of this stuff from *Brave New World*.

ANSWER: illegal **drugs** [accept **pain relievers** or **morphine** or equivalents to drugs]

[10] Algren moved from Chicago to Paterson, New Jersey to write an article about Rubin Carter, a man in this profession wrongly accused of murder. Nobel laureate Bob Dylan's song "Hurricane" is also about that man in this job.

ANSWER: **boxer** [accept middleweight **boxer**; prompt on professional **athlete**]

<Michael Bentley, Literature - American> ~14203~

14. The modernizing Muhammadiyah movement formed in this country in the 1920s. For 10 points each:

[10] Name this country where a spiritual exercise called *latihan kejiwaan* is used by the Subud sect. Over 200 million Muslims practice in this largest Muslim majority country.

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

[10] In Indonesia, a drum called a *bedug* is often used for this activity. More commonly, this action is done by the muezzin, sometimes speaking into a loudspeaker on a minaret.

ANSWER: **call to prayer** [or **adhan**; accept equivalents such as **alerting** people that it is time to **pray** or engage in **salat**]

[10] In Indonesia, Eid-al-Fitr is preceded by a period of this action called *mudik*. The largest annual instance of this action is Chunyun, which accompanies the Chinese New Year.

ANSWER: human **migration** [accept any answers indicating temporary **migration**, **immigration**, or **travel** rush; accept answers indicating **going home**, **homecoming**, or **visiting family**]

<Michael Bentley, RMP - Islam> ~18881~

15. This poet used the "great Gromboolian plain" as the setting for his poem "The Dong with the Luminous Nose." For 10 points each:

[10] Name this English poet whose forays into nonsense verse include the mention of a "runcible spoon" in his poem "The Owl and the Pussycat."

ANSWER: Edward **Lear**

[10] Another famous example of nonsense verse is the poem "Jabberwocky," which describes a "frumious bandersnatch" and was written by this author of *Alice's Adventures in Wonderland*.

ANSWER: Lewis **Carroll** [or Charles Lutwidge **Dodgson**]

[10] After saying "Callooh! Callay!", a character in "Jabberwocky" performs this action, a nonsense verb that has since gained common usage. It is thought to be a portmanteau of two words referring to laughter.

ANSWER: **chortle** [accept word forms, such as **chortling**]

<Chauncey Lo, Literature - British - Poetry> ~16943~

16. This planet's low but non-zero air pressure of half a percent of an atmosphere is lower than water's vapor pressure. For 10 points each:

[10] Name this planet whose deposits of hematite indicate it was once host to liquid water.

ANSWER: **Mars**

[10] The absence of water means this material can remain in the Martian atmosphere for months. This material drastically increases the atmosphere's optical depth and directly impedes the power collection of rovers.

ANSWER: Martian **dust** [accept **dust** storms]

[10] SNC meteorites have provided evidence for past water, but the best-known Martian meteorite was found in the Allan Hills of this region and contained microbe-like structures. Older meteorites are easily found in the mountains spanning this region.

ANSWER: **Antarctica** [accept **Oates Land** or **Victoria Land**; anti-prompt on the **South Pole**]

<Kevin Wang, Science - Astronomy> ~19186~

17. This artist was killed at age 35 in a plane crash on his way to inspect a site in Texas for one of his projects. For 10 points each:

[10] Name this artist whose estate was long managed by his wife, Nancy Holt, who herself created works like *Sun Tunnels* in the Great Basin Desert.

ANSWER: Robert **Smithson** [or Robert Irving **Smithson**]

[10] Smithson is best known for a jetty in this shape in the Great Salt Lake.

ANSWER: a **spiral** [accept **Spiral Jetty**]

[10] Holt's *Sun Tunnels* consist of a series of cylinders made from this material. Many Brutalist buildings were constructed from the reinforced form of this material.

ANSWER: **concrete** [accept reinforced **concrete** or **cement**]

<Michael Bentley, Fine Arts - Miscellaneous> ~18167~

18. The nickname for this policy supposedly came from a line in an Aesop fable titled for the "North Wind." For 10 points each:

[10] Name this policy instituted by Kim Dae-Jung. This policy attempted to de-escalate tensions between North and South Korea and eventually end North Korea's nuclear program.

ANSWER: **Sunshine Policy** [or **Reconciliation and Cooperation Policy Towards the North**; or **Operational Policy Towards the North**; or **Embracing Policy**]

[10] Kim Dae-Jung was heavily praised for alleviating South Korea's debt to this international organization. This sister organization to the World Bank lends money to developing countries.

ANSWER: **International Monetary Fund** [or **IMF**]

[10] This former president of South Korea promised to return to the Sunshine Policy and held multiple summits with Kim Jong-Un. He succeeded Park Geun-Hye in 2017.

ANSWER: **Moon** Jae-In

<Hari Parameswaran, History - World - Asian> ~19089~

19. Tereus performs this action on Philomela in an attempt to get away with raping her. For 10 points each:

[10] Identify this action performed on Philomela, who later transforms into a nightingale.

ANSWER: **cuts out** her **tongue** [prompt on **silencing** her or equivalents]

[10] Philomela and Procne were daughters of Pandion, a ruler of this Greek city. This city's patron goddess planted an olive tree to win a contest judged by Cecrops.

ANSWER: **Athens** [or **Athenai**]

[10] According to Ovid, Jupiter cut out the nymph Lara's tongue for revealing his affair with this goddess of fountains. This goddess provides her brother Turnus with a sword during his fight with Aeneas.

ANSWER: **Juturna** [or **Iuturna**; or **Diuturna**]

<Michael Bentley, RMP - Greco-Roman Mythology> ~13893~

20. Immunomodulation during this process may reduce autoimmune disease incidence according to a namesake "Compensation Hypothesis". For 10 points each:

[10] Name this three trimester long process that can be detected by the presence of hCG in the urine.

ANSWER: **pregnancy** [or **gestation**]

[10] Wilson's paper argues that women's immune systems expect signals from this organ as it grows during pregnancy. This hCG-releasing structure implants spiral arteries after developing from trophoblast cells.

ANSWER: **placenta**

[10] Before the placenta fully develops, this remnant of the ovarian follicle secretes progesterone to sustain the pregnancy. A namesake carotenoid provides it a yellow color.

ANSWER: **corpus luteum**

<Michael Bentley, Science - Biology> ~18301~

21. Jan Hendrik Schön ("shurn") was briefly tipped for a Nobel Prize after fraudulently claiming to have made massive breakthroughs with these materials. For 10 points each:

[10] Name these materials used to make transistors, with properties in between those of conductors and insulators.

ANSWER: **semiconductors**

[10] Schön's fake data on organic transistors was used as evidence for this "law," according to which the number of transistors that fit on a computer chip doubles every 18 months.

ANSWER: **Moore's** law

[10] Another of Schön's falsified papers claimed to investigate this effect in organic semiconductors. In the "fractional" form of this effect, rational filling factors are found to multiply the quantity " e^2 over h ."

ANSWER: fractional **quantum Hall** effect [prompt on Hall effect; accept integer **quantum Hall** effect]

<Joseph Krol, Science - Physics> ~18592~