



NSC 2018 - Round 03 - Tossups

1. A character in this play accuses another man of just hitting "younger men... and children... women... birds." Another character in this play tells the story of a fifteen-year old boy who accidentally killed his mother with a shotgun, and who caused much laughter by ordering "bergin and water." In another story about that boy in this play, he was taken to the hospital after he crashed his car while (*) swerving to avoid a porcupine in the road. In this play, a "hysterical pregnancy" supposedly caused Nick to marry his wife. During the "Walpurgisnacht" act of this play, George suggests that a game of "Get the Guests" be played to humiliate Martha and Honey. For 10 points, name this domestic drama by Edward Albee.

ANSWER: Who's Afraid of Virginia Woolf?

<Jose, Literature - American>

2. Calcium copper titanate is a particularly strong one of these materials due to a grain boundary. Energy dissipation in these materials is quantified by the loss tangent. Implicit models of solvation treat the solvent as one of these materials, which name a quantity used to measure solvent polarity. The namesake "strength" of these materials is measured in volts per meter and gives the applied field needed to make them conduct above the (*) breakdown voltage. A quantity named for these materials is also called "relative permittivity" and is multiplied by epsilon-naught times area over distance in the parallel-plate model. For 10 points, what insulating materials are placed between the plates of a capacitor to increase capacitance?

ANSWER: dielectrics [accept dielectric constant; prompt on insulator]

<Mukherjee, Science - Physics>

3. One of the first stars in this profession collaborated on some projects with Reform Club member and architect Charles Barry and was named Alexis Soyer. Massimo Bottura wrote a 2011 book titled for people in this profession, some of whom run businesses called *trattoria*. These people often wear a starched hat called a *toque blanche* (toke BLONSH). In the US, the (*) James Beard foundation gives out awards to people in this profession. In 2012, one of these people named Bernard Loiseau killed himself amidst rumors that he would be downgraded from three to two Michelin stars. Auguste Escoffier's hierarchy of this profession puts their *sous* (soo) variety second in command. For 10 points, an apron is usually worn by members of what food preparation profession?

ANSWER: chefs [or cooks; or restaurateurs; or chef de cuisine; or kitchen head; or executive chef; or chef manager; or master chef; or head chef; accept Never Trust a Skinny Italian Chef]

<Jose, Mixed/Other/General Knowledge>

4. This organization was likened to a cult in the title of a 1974 book by Victor Marchetti. It's not the NSC, but in 1946 Harry Truman appointed Sidney Souers to be this organization's first leader. Its one-time leader William Colby devised many of the "stay-behinds" for Operation Gladio. Its "Family Jewels" documents were released to the public during the (*) Church Committee hearings, in which Mary Embree claimed that this organization developed a "heart attack gun." Gerald Ford appointed George H. W. Bush to serve as its director in the 1970s. This organization succeeded the Office of Strategic Services and generally lacks a domestic charter. For 10 points, name this US government agency that gathers information about foreign espionage.

ANSWER: the **CIA** [or the **Central Intelligence Agency**]

<Jose, History - American>

5. A character in this play is asked about the views of Pythagoras on birds and believes himself to be the addressee of a letter written to "M, O, A, I." That character in this play is asked if he thinks, because he is virtuous, "there shall be no more cakes and ale?" After being locked in a room, that character in this play is visited by a man disguised as the priest Sir Topas, who insists that character has gone (*) mad. The primary subplot in this play revolves around a forged love letter from Olivia that tricks the prudish servant Malvolio. For 10 points, name this play about the shipwrecked Viola and Sebastian, a Shakespearean comedy named for the fact that it was originally performed at the end of Christmas festivities.

ANSWER: ***Twelfth Night***, or ***What You Will***

<Minarik, Literature - British>

6. Angelo Tani commissioned a painting of this scene that ended up in Poland after Paul Benecke captured the ship transporting it. St. Peter shakes hands with one of the naked men in a procession in the left-hand side of an altarpiece of this scene by Hans Memling. One version of this scene was altered by "Il Braghettone," Daniele da Volterra. The artist of one version of this scene depicted himself as the man holding his (*) own flayed skin, St. Bartholomew. Memling's version of this scene depicts an armor-clad Michael in the foreground. This scene decorates the altar wall of a building that Michelangelo had earlier painted the ceiling for. For 10 points, name this Biblical scene of Christ sending souls to Heaven and Hell.

ANSWER: ***The Last Judgment*** [or ***Il Giudizio Universale***]

<Bentley, Arts - Painting>

7. Removing three holes from one of these objects creates a topological surface called the "pair of pants." A Morin surface is formed by manipulating one of these objects, and David Hilbert illustrated that all geodesics (geo-DEE-sicks) on this structure are closed curves. The number of these objects that can touch another one of these objects is known as the (*) kissing number. Johannes Kepler proposed a famous conjecture about the optimal packings for this structure in three-dimensional space. A coordinate system named after this object represents points as a distance, a polar angle, and an azimuthal angle. For 10 points, name this object that consists of all points in three-dimensional space that are equidistant to a given point.

ANSWER: **spheres**

<Minarik, Science - Math>

8. A Homeric hymn to this deity ends with him being advised to visit a trio of honeycomb-eating nymphs at Parnassus called the Thriae; that poem also describes him encountering an old man on the plain of Onchestus after weaving some sandals. Aeneas's ally Evander was a son of this god. The nymph Salmacis fell in love with, and then merged with, a son of this god. An esoteric religious tradition based on texts attributed to this god dubbed him (*) "thrice-great." This father of the thief Autolykus (auto-LIE-kus) used a strategy involving reversing footprints to successfully steal cattle belonging to another god, to whom this god gave the lyre as compensation. A snake-wrapped staff called the *caduceus* (kah-DOO-see-us) was carried by, for 10 points, what winged-sandal-wearing Greek messenger god?

ANSWER: **Hermes** [accept **Mercury** until "Greek" is read; accept **Hermes** Trismegistus] (Salmacis fell in love with Hermes and Aphrodite's son Hermaphroditus.)

<Carson, RMP - Greco-Roman Myth>

9. In the early 2000s, environmentalists successfully diverted a Transneft oil pipeline from passing within 3,000 feet of this body of water. A polluting pulp and paper mill on its banks was closed in 2013. A first millennium BC stele near this lake shows a giant lizard-like monster similar to the cryptid Lusud-Khan said to live here. The Buryat people who live around this lake refer to it as the "blue eye." This lake is threatened by a plan to open a uranium plant in (*) Angarsk. The Selenga river flows into this lake, which is home to nerpa seals. The 45-mile-long island of Olkhon is located in this lake. It is both the oldest freshwater lake on Earth and, at 1,620 meters, the deepest. For 10 points, name this Siberian lake.

ANSWER: Lake **Baikal** [or Ozero **Baykal**; or Ozero **Bajkal**]

<Bentley, Geography - Europe>

10. The victorious forces at this battle had to wait a month at the mouth of the Dives River for favorable weather. At a ceremony conducted on the Christmas Day following this battle, its victor's troops set fire to nearby buildings after mistaking cries of acclamation for insurrection. The Battle Abbey was built to commemorate this battle, which was the culmination of a campaign begun at Pevensey. Two years after this battle, the victor wrought destruction on territories beyond the (*) River Humber in the Harrying of the North. The losing side in this battle had just fought the Battle of Stamford Bridge. The loser of this battle is depicted taking an arrow to the eye in the Bayeux Tapestry. For 10 points, name this 1066 victory for William the Conqueror.

ANSWER: Battle of **Hastings**

<Bentley, History - European>

11. A protein in the HSP70 family that is localized to the ER is named for "binding" to these molecules. The kinetoplast of *Crithidia luciliae* is used to detect examples of these entities that bind to dsDNA. The binding of these proteins to their substrates can produce C3 convertase and trigger the classical complement pathway. These proteins are used to visualize indirect fluorescence, in which (*) secondary types of these proteins bind primary ones in a technique commonly used with Western blots. One of these proteins, rheumatoid factor, binds to the Fc region of another of these proteins. These proteins, made of two heavy chains and two light chains, are secreted by B cells. For 10 points, name these Y-shaped proteins which bind to antigens.

ANSWER: **antibodies** [or **immunoglobulins**; accept auto**antibodies**; accept anti-nuclear **antibodies**]

<Wang, Science - Biology>

12. Scholars dispute whether Marie-Anne Collot sculpted the face of a statue of this man. A mechanism for transporting part of a statue of this person was figured out by a Greek fugitive named Marinos Carburis. This ruler hired architect Domenico Trezzini to create buildings such as the Twelve Colleges. A monument to this man was the first since Pietro Tacca's statue of Philip IV to depict a freestanding (*) bronze man on a rearing horse; that statue stands on a 1,250-tonne pedestal known as the Thunder Stone. This ruler is depicted in Étienne Maurice Falconet's *The Bronze Horseman*, a statue in Senate Square in the city he founded, which is also home to the Hermitage Museum. For 10 points, name this Russian Emperor, the namesake of a major city on the Baltic Sea.

ANSWER: Peter the Great [or Peter I; or Pyotr Velikiy; or Pyotr I; or Peter Alexeyevich I; prompt on Peter]

<Bentley, Arts - Sculpture>

13. In a letter opposing a lowered interest ceiling, this philosopher outlined an early quantity theory of money. This thinker argued that spoilage prevented accumulation until the invention of money in a work where he wrote that "In the beginning all the world was America." He stated that people gain a right to land by improving it as long as it is abundant, which Robert Nozick described as this man's "proviso." One work by this man argues that men cannot enter into (*) slavery because they do not have absolute power over themselves, and is paired with a work that legitimizes revolutions against governments that lack the consent of the people. For 10 points, name this philosopher who defended the right to "life, liberty, and estate" in his *Two Treatises of Government*.

ANSWER: John Locke

<Kothari, RMP - Philosophy>

14. The historian Richard W. Bulliet examined the military advantage offered by these animals in a book that paired them with the wheel. A corps named for these animals established by Henry C. Wayne was used for carrying mail at Fort Mohave but was shuttered due to associations with Jefferson Davis. In a battle named for these animals, Talha and Zubair were killed leading a rebel army. In that 656 CE battle named for these animals, (*) Aisha was captured by the caliph Ali. The salty milk from these animals is drunk by Bedouins. One of these animals was accidentally shot in the head at the Battle of Aqaba by its rider, T. E. Lawrence. For 10 points, name these animals, the dromedary variety of which are often used for desert travel.

ANSWER: camels [or dromedary camels; or Bactrian camels]

<Bentley, History - World>

15. A soldier born in this country wrote an epic poem translated into English as *The Araucaniad*. An ornate style of poetry from this country that took its name from a combination of the words for "cultured" and "Lutheran" was propounded most notably by the author of the unfinished poem *Solitudes*. That poet engaged in a long-running feud with this country's leading proponent of "conceptism." The 300th anniversary of the death of a poet from this country inspired the founding of its (*) Generation of '27. A literary era in this country is often said to have ended with the death of the author of the plays *Life is a Dream* and *The Mayor of Zalamea*. For 10 points, name this country whose Baroque "Golden Age" featured the authors Luis de Góngora and Pedro Calderón de la Barca.

ANSWER: Spain [or España; or the Kingdom of Spain; or Reino de España]

<Carson, Literature - European>

16. Scattering experiments performed on these molecules are interpreted in Kratky or Guinier plots. The synthesis of these molecules by the ROMP (romp) reaction involves the relief of ring strain. Molecules can be "masked" from the immune system by attaching one of these molecules in the process of PEGylation (peg-ill-AY-shun). The telechelic (tell-uh-KEE-lick) versions of these molecules contain reactive (*) end groups. These molecules can form through "living" reaction mechanisms that propagate through anionic (ANN-ionic), cationic (CAT-ionic), or radical intermediates. The polydispersity (poly-dis-PURR-sit-ee) index characterizes their mass distribution, and DuPont created one of them from chloroprene (CLOR-oh-preen). For 10 points, name these molecules which can be formed by step-growth or chain-growth mechanisms, which include neoprene and nylon.

ANSWER: polymers [accept proteins before "ROMP" is mentioned, prompt afterwards]

<Wang, Science - Chemistry>

17. A set of three sacred examples of these features is found at Dewa (DAY-wa) and is venerated by a sect founded by En no Gyoja. Worship of these features was incorporated into Shugendo, some practitioners of which are named for prostrating themselves at these features. Yamabushi are considered mystics of these features. One of them named Hiei (HEE-ay) was the site of the Enryaku-ji (EN-ryah-koo-JEE) monastery, which was razed by Oda Nobunaga. An hourglass-shaped one of these features, which (*) measures 80,000 yojanas in height and is named Sumeru (soo-meh-roo), is the axis-mundi in Buddhism. Along with flowers, one of these features was represented by Sakuya-hime (SAH-koo-ya-HEE-may); that example of these features contains a crater with "eight sacred peaks." For 10 points, Fuji is an example of what kind of landform?

ANSWER: mountains [or volcanoes]

<Wang, RMP - Other Religion>

18. An 1890 concession gave Gerald Talbot a monopoly over this crop in Iran, sparking an riot in Tehran. A boycott of the Austrian government's monopoly over this product sparked the Five Days of Milan in 1848. The leading merchants of 18th-century Glasgow were known as the "lords" of this crop. The use of this crop was dubbed "loathsome to the eye" and "harmful to the brain" in a treatise titled for a (*) "Counterblaste" to it by James I of England. Along with sugar and cotton, this crop was the chief export to England via the triangular trade; in England, it was popularized by Walter Raleigh after John Rolfe made it a cash crop in Virginia. For 10 points, name this plant, a chief ingredient in cigarettes.

ANSWER: tobacco

<Bentley, History - European>

19. A string quartet inspired by this event begins and ends with the violins imitating the beeping sound made by a phone left off the hook. A piece inspired by this event quotes the trumpet solo from *The Unanswered Question* above a chorus singing the line "we all love you." In that piece, a boy repeats the word "missing" while pre-recorded voices repeat the names of this event's victims. The album cover of a Steve Reich string quartet named for this event controversially used a (*) photo of it. The 2003 Pulitzer Prize for Music was awarded to a piece commemorating this event, *On the Transmigration of Souls*. In the days after this event, popular musicians organized "The Concert for New York City." For 10 points, name this terrorist attack in 2001.

ANSWER: 9/11 [or the September 11, 2001 terrorist attacks; prompt on WTC or World Trade Center attack; do not accept or prompt on "World Trade Center bombing"]

<Magin, Arts - Music>

20. This novel's protagonist uses scrap from a man's old "yellow dress" to make the "Sister's Choice" pattern for her quilt. Another character in this novel moves to Tucson, Arizona after falling in love with the flute player Germaine. A character in this novel demands to be called Mary Agnes and not Squeak after she is raped by a prison warden. This novel ends during a family reunion on July 4th after the protagonist's sister returns from (*) Africa, where she lived with the missionaries Samuel and Corinne. In this novel, "Mister" hides letters that are written by Nettie and addressed to her sister. For 10 points, name this novel in which Celie addresses many of her letters about life in southern Georgia to God, a novel by Alice Walker.

ANSWER: *The Color Purple*

<Jose, Literature - American>

21. Eugène Delacroix may be the artist standing next to the bishop in this artist's enigmatic *The Eternal Feminine*. A group of artists admire one of this artist's paintings in an "Homage" to him painted by Maurice Denis (duh-nee). His break from traditional forms of representation is examined in an essay on his "Doubt" by Maurice Merleau-Ponty. This artist often depicted one of his frequent subjects above an Aix-Marseille (ex-mar-SAY) railway bridge. A leering man watches a black woman revealing the title (*) woman in this artist's *A Modern Olympia*. Pablo Picasso called this artist "the father of us all" and drew inspiration from this artist's many *Bathers* to develop Cubism. For 10 points, name this Post-Impressionist French artist who frequently painted still lifes of apples and views of Mont Sainte-Victoire (mont sant-vik-TWAR).

ANSWER: Paul Cézanne

<Bentley, Arts - Painting>



NSC 2018 - Round 03 - Bonuses

1. A campaign against this man was part of the greater campaign of the "Three Fs." For 10 points each:

[10] Name this land agent. His name entered the English language after his employees refused to work for him, forcing the deployment of an expeditionary force to harvest his crops.

ANSWER: Charles **Boycott**

[10] Boycott was an Englishman who managed land in this neighboring island country, then a part of the UK. Absentee landlords in this country were often targets for the ire of this country's Land League.

ANSWER: **Ireland** [or **Eire**]

[10] This leader of the Land League gave the speech that incited the original boycott. As an MP, he convinced members of the Liberal Party to support Irish Home Rule.

ANSWER: Charles Stewart **Parnell**

<Minarik, History - European>

2. Answer the following about the Late Modern choreographer Paul Taylor, for 10 points each.

[10] Taylor studied with this long-lived American modern dancer, whose technique focused on contraction and release. She collaborated with Aaron Copland on the ballet *Appalachian Spring*.

ANSWER: Martha **Graham**

[10] The Martha Graham Dance Company, America's oldest, is headquartered in this city. Mikhail Baryshnikov (**buh-RISH-nick-off**) spent a decade as the director of this city's American Ballet Theatre.

ANSWER: **New York** City [or **NYC**; accept **New York** City Ballet or **NYCB**]

[10] Taylor spent time in the New York City Ballet, which was founded by Lincoln Kirstein and this Georgian-born neoclassical choreographer, who spent more than three decades as its Artistic Director.

ANSWER: George **Balanchine** [or Giorgi Melitonovich **Balanchivadze**]

<Lifshitz, Arts - Ballet/Dance>

3. The protagonist of this novel writes three "alternate lives" for himself, as a shaman, a hermit, and an Indian prince, which are appended to the end of the book. For 10 points each:

[10] Name this novel in which Joseph Knecht studies history, music, and mathematics in Castalia to perfect his skills at the title pursuit.

ANSWER: *The **Glass Bead Game*** [or ***Magister Ludi***; or *Der **Glasperlenspiel***]

[10] *The Glass Bead Game* is a novel by this writer, who wrote about Harry Haller's experiences in the hallucinatory Magic Theater in *Steppenwolf*.

ANSWER: Hermann **Hesse** (**HESS-uh**) [or Hermann Karl **Hesse**]

[10] In the Magic Theater, this man mocks Harry Haller for not enjoying a Handel concerto played over the radio. One of Pushkin's "little tragedies" is based on the myth that this historical figure was poisoned.

ANSWER: Wolfgang Amadeus **Mozart**

<Bollinger, Literature - European>

4. Ronald Fisher posited a "runaway" form of this phenomenon, which was first postulated by Darwin in *The Descent of Man*. For 10 points each:

[10] Name this form of natural selection that involves mate choice and competition for mates.

ANSWER: **sexual** selection

[10] Runaway sexual selection can lead to the long tails of male peacocks, an example of this type of feature. This term refers to a physical characteristic that serves a decorative function, used to attract mates during courtship displays.

ANSWER: biological **ornamentation**

[10] According to the Bright Male hypothesis, ornamentation helps females judge males' resistance to these organisms, such as tapeworms and fleas. These organisms engage in a symbiotic relationship that benefits them but harms their hosts.

ANSWER: **parasites** [or **parasitism**]

<Kothari, Science - Biology>

5. One character in this dialogue uses an analogy about a line divided into four parts to explain the four "affections" of the mind. For 10 points each:

[10] Name this Platonic dialogue about justice, which introduces the Allegory of the Cave to illustrate the theory of Forms.

ANSWER: *The **Republic*** [or ***Politeia***]

[10] While discussing justice with Glaucon, Socrates compares the illumination of the sun to the way this particular Platonic Form makes truth visible. This Form is said to be the greatest of all Forms.

ANSWER: Form of the **Good** [or Form of **Goodness**]

[10] In Book I of this work, Aristotle argued that the Form of the Good is so removed from everyday human affairs as to be irrelevant. This work discusses virtues like courage and justice.

ANSWER: ***Nicomachean Ethics***

<Kothari, RMP - Philosophy>

6. In a passage from *Life on the Mississippi*, Mark Twain attacks this author for inculcating with his audience "sham grandeurs" and "sham chivalries of a brainless and worthless long-vanished society." For 10 points each:

[10] Name this author who Twain accused of making "every gentleman in the South a Major or Colonel" in his fictions, thus making him a "great measure responsible" for the Civil War.

ANSWER: Sir Walter **Scott**

[10] This author wrote a novel about John Paul Jones called *The Pilot* in an effort to outdo Scott's novel *The Pirate*. His novel *The Pioneers* was inspired by Scott's *Waverley*.

ANSWER: James Fenimore **Cooper**

[10] In a scene from this novel by Harper Lee, Jem Finch reads Mrs. Dubose passages from Sir Walter Scott's *Ivanhoe* after angrily destroying her flowers.

ANSWER: ***To Kill a Mockingbird***

<Jose, Literature - American>

7. A general from this period of time named Bai Qi (**bye chee**) was known as *Ren Tu* or "The Human Butcher" since he ordered that 400,000 enemy soldiers be buried alive at the Battle of Changping. For 10 points each:
[10] Name this period of history which began in the 5th century BC, and only ended after the Zhou Dynasty collapsed.

ANSWER: **Warring States** Period [or **Zhànguó shídài**]

[10] The Warring States Period ended with the unification of China by Qin Shi Huang (**cheen shur hwong**), whose necropolis contains an army of soldiers made from this material.

ANSWER: **terracotta** [or **clay** or **earthenware**; accept **Terracotta Army**; prompt on **ceramics** or **pottery**]

[10] The anecdote about the Bai Qi (**bye chee**), "The Human Butcher," appears in this text by Sima Qian (**suh-mah chee-EN**), which claims that the Xia (**sh'YAH**) Dynasty were the first rulers in the lands that comprise modern-day China.

ANSWER: **Records of the Grand Historian** [or **Shiji**]

<Jose, History - World>

8. The chaperone-mediated version of this process involves the participation of the hsc70 complex. For 10 points each:

[10] Name this process in which cell components and organelles are disassembled and recycled. Yoshinori Ohsumi (**OH-sue-me**) won a Nobel Prize for the study of this process in yeast.

ANSWER: **autophagy** (**aw-TOFF-uh-jee**) [or **autophagocytosis**]

[10] Autophagy depends on the action of the protein Atg1, which is a serine/threonine (**ser-een THREE-oh-noon**) type of these enzymes. These enzymes catalyze the transfer of phosphate groups to their substrate.

ANSWER: serine/threonine **kinases** [prompt on **phosphorylases** or **phosphotransferases**]

[10] The kinase PINK1 phosphorylates (**foss-FOR-ih-lates**) parkin to initiate autophagy of this organelle. Oxidative phosphorylation (**foss-FOR-ih-LAY-shun**) takes place in the inner membrane of this organelle, the powerhouse of the cell.

ANSWER: **mitochondrion** [accept **mitochondria**]

<Ramaswami, Science - Biology>

9. The three gold balls displayed outside of pawn shops trace their origins to this saint having thrown three bags of gold through a window to help out a destitute father. For 10 points each:

[10] Identify this saint, commonly asked to "hold the tiller" in a sailor's prayer. The feast day of this "Wonderworker" saint is celebrated on December 6th.

ANSWER: Saint **Nicholas** of Myra [or **Nikolas**; or **Nicholas** of Bari; or **Nikolaos** the Wonderworker; or Saint **Nick**; do not accept or prompt on "Santa Claus"]

[10] Nicholas supposedly punched the heretic Arius in the face at this 325 AD church council to defend Orthodoxy. This first ecumenical council established a namesake creed.

ANSWER: First Council of **Nicaea** [or **Nicene** Creed]

[10] Medieval Christians often swore to an altar of Saint Nicholas before performing this action. A *Mudarabah* is a common structure for engaging in this practice without violating restrictions on it in the Qur'an, which calls it *riba*.

ANSWER: money **lending** [or taking out a **loan**; or charging **interest**; or **usury**; or **banking**]

<Bentley, RMP - Bible/Christianity>

10. Answer the following about innovative (IN-uh-VATE-iv) keyboard techniques used in Domenico Scarlatti's nearly 600 sonatas, for 10 points each.

[10] Scarlatti's sonatas K. 119, K. 96, and K. 27 use this unconventional technique indicated by the markings "m.g." or "m.d." that Bach extensively used in the *Goldberg Variations*. According to a joke, Scarlatti became too fat to use this technique in his later sonatas.

ANSWER: **crossing hands** over each other [accept synonyms for **exchanging hand** positions; prompt on voice **crossing**]

[10] Scarlatti often has one hand bounce over the other in leaps greater than this largest simple interval. C to higher C is one of these intervals with a frequency ratio of 2-to-1.

ANSWER: **octave** [or perfect **octave**]

[10] Scarlatti also pioneered quick parallel runs of these two complementary interval numbers. In species counterpoint, these two interval numbers are the imperfect consonances.

ANSWER: **thirds** AND **sixths** [or **3** AND **6**; accept in either order; accept major **thirds** or minor **thirds** in place of "thirds"; accept major **sixths** or minor **sixths** in place of "sixths"]

<Lifshitz, Arts - Music>

11. Identify the following about the Magna Carta's legacy in American history, for 10 points each.

[10] In 1775, a council in this state used an image of an American holding a sword and the Magna Carta for its seal. This state's 1780 constitution is the oldest still-functioning constitution in the world.

ANSWER: **Massachusetts** [or Commonwealth of **Massachusetts**]

[10] The words "Magna Charta" also appear in the seal of this body, which met in Carpenters' Hall. This body, presided over by Peyton Randolph, passed a resolution boycotting British-made goods.

ANSWER: **First Continental Congress** [prompt on **Continental Congress**]

[10] In this man's *Braintree Instructions*, he argued that the Stamp Act was "directly repugnant to the Great Charter itself." He served as the second President of the United States.

ANSWER: **John Adams** [prompt on **Adams**]

<Bentley, History - American>

12. In this drama, Captain Cat dreams of his deceased wife, Rosie Probert. For 10 points each:

[10] Name this 1954 drama, a "play for voices" about the residents of the fictional fishing village Llareggub.

ANSWER: ***Under Milk Wood***

[10] *Under Milk Wood* is a radio drama by this heavy-drinking Welsh author of the poems "Fern Hill" and "Do not go gentle into that good night."

ANSWER: Dylan Marlais **Thomas**

[10] A Thomas poem that claims "though lovers be lost love shall not" continually repeats the phrase that this concept "shall have no dominion," a quote from a verse in Romans.

ANSWER: **death** [accept "And **Death Shall Have No Dominion**"]

<Cheyne, Literature - British>

13. Under Sheikh Tamim bin Hamad Al Thani, this country spent billions supporting the Muslim Brotherhood in Egypt. For 10 points each:

[10] Identify this country which was subject to a blockade from Saudi Arabia and its allies. Al Jazeera broadcasts from this Gulf State.

ANSWER: **Qatar** [or State of **Qatar**]

[10] Qatar's wealth comes mainly from its reserves of this resource, which is not oil. The Atlantic Sunrise Pipeline transports this good in the US.

ANSWER: **natural gas** [prompt on gas; do not accept "gasoline"]

[10] The blockade may have been caused by Qatar paying one billion dollars to Iran to retrieve hostages who had been engaging in this activity. It's not hunting, but lanners, muskets, and kestrels were used by low-ranking medieval participants in this activity.

ANSWER: **falconry** [or **hawking**; or **gamehawking**]

<Bentley, Current Events - Foreign>

14. An AVL chip made by Atmel is often at the center of the products made by this company. For 10 points each:

[10] Name this electronics company that produces microcontrollers that can be programmed and configured to control various devices. It takes its name from an Italian bar.

ANSWER: **Arduino** (AR-doo-EE-no)

[10] Arduino's codebase has this property, meaning that anyone can view and redistribute the source code. Mozilla Firefox is a popular web browser that has this property.

ANSWER: **open source** software [or **OSS**; accept free and **open source** or **FOSS**; accept free libre **open source** or **FLOSS**]

[10] Arduino components are most often controlled using a dialect of features taken from this low-level programming language and its object-oriented successor. The malloc (**MAL-uck**) function is used to allocate memory in this language.

ANSWER: **C** [do not accept or prompt on "C-sharp" or "C-plus-plus" or "Objective-C"]

<Jose, Science - Computer Science>

15. Identify the following about the Nueva Planta decrees, for 10 points each.

[10] The decrees were issued in the early 18th century by the first Spanish king from this dynasty, Philip V. The War of the Spanish Succession was fought to prevent this dynasty from controlling the Spanish throne.

ANSWER: House of **Bourbon** [or **Bourbon** Dynasty]

[10] The decrees removed many of the privileges of this region of Spain, effectively nationalizing the country. Zaragoza was the final capital of this kingdom, which was united with Castile to form modern-day Spain.

ANSWER: **Aragon** [or Kingdom of **Aragon**]

[10] In response, the Aragonese backed this Holy Roman Emperor over the French candidate for the Spanish throne. This emperor issued the Pragmatic Sanction to pass on his territories to Maria Theresa. Give his title as Holy Roman Emperor.

ANSWER: **Charles VI** [or **Karl VI**; do not accept or prompt on "Charles II" or "Charles III" as he wasn't called that as Holy Roman Emperor]

<Bentley, History - European>

16. An effect involving letters with this property was discovered by the Belgian psychologist Jozef Nuttin. For 10 points each:

[10] Nuttin discovered that people tend to prefer letters with this property over other letters of the alphabet.

ANSWER: letters that appear in one's **name** [or **name**-letters; or **name**-letter effect; accept descriptive answers]

[10] A name-letter preference task is widely used to estimate the implicit variety of this phenomenon, which is a person's evaluation of their own worth.

ANSWER: **self-esteem** [accept **self-regard** or **self-respect** or **self-integrity**]

[10] Nuttin argued that the name-letter effect results from the fact that people tend to value things more highly when they have this relationship to those things, which is also responsible for the endowment effect.

ANSWER: **ownership** [accept answers indicating that the person **owns** the thing in question; prompt on **possession** or similar answers]

<Nediger, Social Science - Psychology>

17. A member of this family sends an agricultural expert to restore the soil fertility of the village of Ndotsheni, for which he also funds the construction of a dam and a new church. For 10 points each:

[10] Name this family that also includes a civil rights activist whose murder, and the subsequent trial, is a major subject of a 1948 novel.

ANSWER: **Jarvis** family [or the **Jarvises**; accept James **Jarvis** or Arthur **Jarvis**]

[10] Absalom Kumalo's trial and execution for the murder of Arthur Jarvis is a major plot point in this South African author's novel *Cry, the Beloved Country*.

ANSWER: Alan (Stewart) **Paton**

[10] Paton lends his name to a literary nonfiction prize that was given in 1995 to this man for his autobiography *Long Walk to Freedom*.

ANSWER: Nelson (Rolihlahla) **Mandela**

<Carson, Literature - World>

18. A show at the Yale Center for British Art paired Mark Leonard's paintings of these things with some 19th-century studies of them by John Constable. For 10 points each:

[10] Identify these things that Constable called the "chief Organ of Sentiment" of landscape painting.

ANSWER: **clouds** [prompt on **sky**]

[10] Clouds incongruously appear above a dark street in one version of this artist's *Empire of Light*. This Belgian surrealist included the caption "This Is Not a Pipe" in his painting *The Treachery of Images*.

ANSWER: René **Magritte** [or René François Ghislain **Magritte**]

[10] This artist used cloudscapes to create abstract images in his *Equivalents*. This pioneering art photographer depicted the two decks of a steamer in *The Steerage* and did many portraits of his wife Georgia O'Keeffe.

ANSWER: Alfred **Stieglitz**

<Bentley, Arts - Painting>

19. Slavic pagans considered fulgurites, among other things, to be the remnants of the stone weapons of this god, whose rival was the dragon Veles. For 10 points each:

[10] Give either the name of this supreme Slavic god or the name of his extremely similar Baltic equivalent, both of which controlled thunder and lightning.

ANSWER: **Perun** [or **Perkunas**; or **Perkons**; or **Perkwunos**]

[10] Perun and Perkunas were very similar to this Norse thunder god, whose hammer Mjölnir (m'YOHL-nee) also resembled those gods' axes.

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

[10] This kind of tree was sacred to Perun, Perkunas, and Thor, and its Latin name is cognate to Perun. A huge one near Hesse was worshipped by devotees of Thor and was legendarily cut down by St. Boniface.

ANSWER: **oak** tree [or **Quercus**]

<Carson, RMP - Other Myth>

20. Answer some questions about measurement in quantum mechanics, for 10 points each.

[10] This principle places a bound on the precision to which position and momentum can be measured simultaneously.

ANSWER: **Heisenberg uncertainty** principle [accept either underlined portion]

[10] The position and momentum wavefunctions are related by this operation. This operation named for a French mathematician is used to convert a function of time into a function of frequency.

ANSWER: **Fourier transform** [do not accept or prompt on "Fourier series," "discrete Fourier transform," or "fast Fourier transform"]

[10] Observables are compatible, and thus can be simultaneously measured, when the expectation value of this operator is equal to zero. For operators A and B , it equals AB minus BA .

ANSWER: **commutator**

<Mitchell, Science - Physics>

21. A nature writer from this country, Roger Deakin, is best-known for the book *Wildwood: A Journey Through Trees*. For 10 points each:

[10] Name this country home to Helen MacDonald, who wrote about training a goshawk after her father's death in *H is for Hawk*. Earlier nature writing from this country includes the journals of Dorothy Wordsworth, William Wordsworth's sister.

ANSWER: **United Kingdom** of Great Britain and Northern Ireland [or **UK**; or Great **Britain**; or **England**]

[10] Another work of British nature writing is J. A. Baker's account of the time he spent watching two of these animals in East Anglia. This animal shares its name with a character surnamed Pickle who titles a picaresque novel by Tobias Smollett.

ANSWER: **peregrine** falcons [prompt on **falcons**]

[10] *H is for Hawk* often references this earlier British author, who also wrote about training a hawk in *The Goshawk*. He also wrote a sequence of Arthurian novels titled *The Once and Future King*.

ANSWER: T. H. **White** [or Terence Hanbury **White**]

<Brownstein, Literature - British>

