



NSC 2018 - Round 24 (Emergency) - Tossups

1. According to the *Odyssey*, King Alcinous's (al-kih-NOH-us's) father's (pause) mother's (pause) father was one of these beings. Another of them had seven daughters who turned into kingfishers when he was slain by Telamon and Heracles. On the plain of Phlegra, one of them was beaten to death with a thyrsus, two were killed with bronze clubs by the Fates, and their king Porphyriion was shot by Apollo. Two of these beings died after Artemis jumped between them, causing them to throw spears at each other, and had earlier (*) trapped Ares in a bronze jar. The Aloadae (ah-LOH-ah-dye), Otus and Ephialtes, were two of these beings who attempted to reach Olympus by stacking Mount Pelion on Mount Ossa. Between wars against Typhon and the Titans, the Olympian gods fought against, for 10 points, what race of huge beings?

ANSWER: giants [or Gigantes; prompt on Gigantomachy] (The first two giants described are Eurymedon and Alcyoneus.)

<Carson, RMP - Greco-Roman Myth>

2. A political cartoon depicts this man in dress uniform being dragged from under a bed by Michael Marlborough. After succeeding Philip Gidley King, he antagonized local sheep tycoon John Macarthur and was imprisoned by George Johnston until his replacement Lachlan Macquarie arrived. This man commanded a mission that sought to bring breadfruit to Caribbean plantations from Tahiti. On that same mission, this future governor of (*) New South Wales during the Rum Rebellion made a harrowing 3,600-mile journey to Timor after losing the confidence of Fletcher Christian. Some of this captain's crew established a secret settlement on Pitcairn Island. For 10 points, name this captain, the target of the mutiny on the *Bounty*.

ANSWER: William Bligh

<Bentley, History - European>

3. Publishers of a newspaper in this state withdrew a defamation suit against politician Ray Scott for calling it "fake news." Candidates running for governor in this state include Doug Robinson, a nephew of Mitt Romney, and Walker Stapleton, a cousin of George W. Bush. Jack Phillips, a business owner in this state, refused to sell a product to Charlie Craig and David Mullins, sparking the (*) *Masterpiece Cakeshop* Supreme Court case. Its current governor was elected in a three-way race against Republican Dan Maes and Constitution Party candidate Tom Tancredo. 2012's Amendment 64 inaugurated an industry in this state for those over age 21. Governor John Hickenlooper legalized marijuana in, for 10 points, what state with capital at Denver?

ANSWER: Colorado

<Bentley, Current Events - United States>

4. A group called CHARAS received a loan from New York City to create public housing in the fashion of this architect. Henry Kaiser funded a prototype of this man's three-wheeled car that could do easy 180-degree turns. He designed an factory-made, airplane-delivered "Dwelling Machine" that failed to catch on. His signature type of building embodied his mantra of "doing more with less" by using interlocking (*) triangles to provide strength. Many of his projects were given names including the term "Dymaxion." This architect's "Spaceship Earth" idea was incorporated in Disney's Epcot park, and he designed a similar spherical structure for the US Pavilion at the 1967 Montréal Expo. He lends his name to a 60-carbon allotrope. For 10 points, name this American architect who promoted the geodesic dome.

ANSWER: Buckminster **Fuller** [or Richard Buckminster **Fuller**]

<Bentley, Arts - Architecture>

5. A story by this author ends with the narrator, a student on a summer-vacation walking tour, realizing that the title character is "a mere child" after seeing her run naked to a river to take a bath. This man wrote a novel whose protagonist, on returning from an outing to a grass-weaving village, becomes obsessed by the image of the Milky Way during a fire at a former silkworm cocoon warehouse. "The (*) Izu Dancer" is one of the "palm-of-the-hand stories" by this author, whose early novels include one about the Western ballet expert Shimamura's encounter with the *geisha* Komako in a hot spring town. *The Old Capital* and *The Sound of the Mountain* were mentioned in the 1968 Nobel citation of, for 10 points, what Japanese author of *Snow Country*?

ANSWER: Yasunari **Kawabata** [accept names in either order]

<Carson, Literature - World>

6. BehavePlus and NEXUS are examples of software used to model these natural events. This phenomenon produces molecules made of a pyran and a butenolide ring, which are signaling molecules known as karrikins. The recurring presence of this phenomenon maintains the fynbos (FAIN-boss) shrublands. Succession of longleaf pine savannas to hardwood forests has occurred due to suppression of this process, which gets more severe with increased (*) fuel loading. The "crown" type of this phenomenon occurs when it spreads throughout the canopy. The resistance of eucalyptus trees to this phenomenon allows it to spread more easily. For 10 points, name this phenomenon that can be started in forests by lightning and that produces smoke.

ANSWER: wild**fires** [or **burning**; or bush**fires**; prompt on heat; prompt on smoke before mentioned]

<Grames, Science - Biology>

7. A person with this title attribute is told to remember "how Love fled... and hid his face amid a crowd of stars" in an adaptation of a Pierre de Ronsard sonnet addressed to Maud Gonne. "Wild" creatures whose "hearts have not" acquired this attribute "scatter wheeling in great broken rings" in front of the speaker in "The Wild Swans at Coole." After opening with a declaration about this kind of person, another poem addresses "sages standing in God's holy (*) fire" and calls this type of person "a tattered coat upon a stick." The poem "Sailing to Byzantium" declares "that is no country for," for 10 points, men with what attribute, often lamented in poems by William Butler Yeats?

ANSWER: **oldness** [or **age**; or being **elderly**; or equivalent]

<Bollinger, Literature - British>

8. This man remembered how a blanket was laid around the corpse of his grandfather Maco in a narrative he dictated in the same year he visited the St. Louis World's Fair. The *New York Times* ran an editorial whose title declared this man "Must Die" after Charles Gatewood detained him. He told his life story to S. M. Barrett while at Fort Sill. Many members of this man's immediate family were killed while he was campaigning with (*) Mangas Coloradas. Among the Chiricahua branch of his people he was known as Goyahkla. Eleven people were killed in an 1883 raid he launched in New Mexico and Arizona. He ultimately surrendered to Nelson A. Miles. For 10 points, name this Apache warrior whose name was later used by GIs when jumping out of planes.

ANSWER: **Geronimo** [or **Gokliya**; accept **Goyahkla** until read]

<Bentley, History - American>

9. The time of flight of an object whose trajectory is this shape is related to the true anomaly of an orbit by Barker's Equation. Some telescopes work by storing liquid mercury in a container of Kevlar, and spinning the container so that the mercury takes on this two-dimensional shape. An astronomical body whose orbit is this shape has a characteristic energy of (*) zero. James Gregory realized that spherical and chromatic aberrations in Newtonian telescopes could be reduced by adding "reflectors" named for this two-dimensional shape. Orbits with this shape are always travelling at, but not over, the escape velocity. Long-period comets have an elliptical orbit that can be approximated by, for 10 points, what conic section, whose eccentricity is one?

ANSWER: **parabola** [or **parabolic**; accept **paraboloid** or **parabolic** reflectors]

<Jose, Science - Astronomy>

10. It's not interest, but a paper by Christiano, Egertson, and Rebelo confirmed conventional theory by showing the effectiveness of increasing this quantity to be two to three times higher in a liquidity trap. In 2012, the IMF estimated a value of 1.7 for the "multiplier" associated with this quantity. It's not debt, but increasing this quantity is the main cause of "crowding out." It is represented by the third letter in the acronym (*) "CIGX," which refers to how gross domestic product equals consumption, plus investment, plus net exports, plus this quantity. Keynesian theory suggests raising this quantity in a "stimulus" to fight recession. For 10 points, identify this value that, when greater than tax revenue, causes national debt to increase.

ANSWER: **government spending** [or **government expenditure**; or **government outlays**; or **government consumption**; or **government investment**; or **public spending**; accept answers indicating how much the **government spends** in a given year; prompt on **spending** or **deficit**; do not accept or prompt on "consumption" or "investment" alone]

<Alston, Social Science - Economics>

11. One work of this type is the treasured holding of the Musee Conde in Chantilly and was completed by the artist Jean Colombe. Working in the 13th century, William de Brailes made self-portraits in paintings for these things. Signs of the zodiac appear above the first thirteen sections in one work made in this medium. Rubricators worked with these objects. Two oxen pull a farmer's plow in the foreground as the Chateau de Lusignan looms in the background in a work of art depicting (*) March created for one of these objects by the Limbourg Brothers. A "Very Rich" work of this type in the late Gothic style was made for the Duc de Berry on vellum. For 10 points, name this type of object for which "illuminators" might supplement the written word.

ANSWER: **book** [or an illuminated **manuscript**; or a **Book of Hours**; or a religious **text**; accept a **Bible**]

<Bentley, Arts - Painting>

12. Two answers required. As part of a peace treaty between these two nations, the place where it was signed became a condominium territory that still changes hands every six months. Neither of these countries is Austria, but Princess Maria Theresa of one of them was given for marriage to the king of the other on Pheasant Island. The failure to pay the dowry for that marriage, which was arranged after these countries fought in the Battle of the (*) Dunes, justified a conflict during which the Viscount of Turenne of one of these nations invaded the other's Dutch territories, the War of Devolution. A theater of the Thirty Years' War named for these two nations was ended by the Treaty of the Pyrenees. For 10 points, name these two nations ruled in the mid-1600s by Philip IV and Louis XIV.

ANSWER: Spain AND France

<Prieto, History - European>

13. Chapter 15 of this novel largely centers on a dinner party attended by guests called "Lemon Tarts" and "social X-Rays," and who listen to a speech on Poe's "The Masque of Red Death" delivered by the gay poet Aubrey Buffing. A woman in this novel flees to Italy to escape public life and later marries the painter Filippo Chirazzi. "Honest Abe" Weiss pursues the "Great White Defendant" in this novel, which concludes with a fictional newspaper article reporting that the (*) journalist Peter Fallow won a Pulitzer Prize for his articles about the hit-and-run death of the black youth Henry Lamb. The bonds trader Sherman McCoy is charged with vehicular manslaughter in, for 10 points, what satire by Tom Wolfe, which is titled for a type of conflagration?

ANSWER: *The Bonfire of the Vanities*

<Jose, Literature - American>

14. Macedonius formed the *pneumatomachi* (noo-MAT-oh-MAH-kye) sect in opposition to this doctrine. A passage from Genesis in which Abraham visits the oaks of Mamre is often used to support this doctrine. A passage in the Gospels that supports this doctrine, the Johannine Comma, is sometimes considered to be a forgery. In the Middle Ages, a shield diagram was used to represent the Athanasian Creed's statement of this doctrine, whose common name was coined by Tertullian. A verse from (*) Matthew 28 is usually cited as the reason a statement of this doctrine is required before any baptism. A component of this doctrine descended upon the Apostles and caused them to speak in tongues on Pentecost. For 10 points, name this Christian doctrine, which states that God exists as the Father, the Son, and the Holy Spirit.

ANSWER: the Trinity [accept the godhood of the Holy Spirit until "Abraham" is read, but prompt afterwards]

<Minarik, RMP - Bible/Christianity>

15. This process occurs after combining a basic solution of benzenesulfonyl (benzene-sulf-ON-ill) chloride with a secondary or tertiary amine, but not a primary amine, in the Hinsberg test. Alloys can be strengthened by a process named for this kind of "hardening." It's not reduction, but observing the result of this process is the basis of Fehling's (FELL-ing's) test. The term (*) "salting out" refers to this process for proteins, which can be triggered with ammonium sulfate for proteins or with ethanol for DNA. Reacting lead cations with almost any anion other than nitrate and acetate results in this process. It is similar to crystallization, but happens much faster and produces smaller crystals. For 10 points, identify this process of forming an insoluble solid from a reaction.

ANSWER: precipitation [or word forms; prompt on crystallization]

<Prieto, Science - Chemistry>

16. Native priests in this country such as Jose Burgos were executed by Governor Rafael de Izquierdo for staging a pro-independence "Mutiny" in 1872. Under colonial rule, taxes were collected from barangays in this country by a *datu*. During World War II, a resistance movement here was led by communist Huk forces. An earlier rebel leader in this country agreed to retreat to (*) Hong Kong in an 1897 ceasefire but two years later presided over the Malolos Republic. Troops under Leonard Wood killed around 1,000 people in a 1906 massacre on its Jolo Island. Spanish and American colonial forces in this country were resisted by guerrilla armies led by Emilio Aguinaldo. For 10 points, name this country from which the Manila Galleons departed.

ANSWER: The **Philippines** [or Republic of the **Philippines**]
<Bentley, History - World>

17. 17 exercises for this instrument were compiled by a 19th-century French master of it, Paul Taffanel. The first manual for European players of this instrument was by Jacques-Martin Hotteterre (oat-TAIR) in 1719. A manual on playing this instrument was written by Johann Quantz (k'VONTS), who served in the court of a Prussian (*) monarch who competently played this instrument. This instrument imitates a bird's call in *The Goldfinch*, one of 18 concertos for it by Vivaldi. Modern versions of this instrument have a closed head and are played via the embouchure (OM-buh-shur) hole. Theobald Boehm (TAY-oh-balt BURM) added ring keys to this instrument, which is held horizontally, unlike similar instruments such as the recorder. For 10 points, name this high woodwind instrument.

ANSWER: **flute** [or transverse **flute**] (Quantz taught Frederick the Great of Prussia.)
<Bentley, Arts - Music>

18. A sculpture of a huge one of these creatures with a single hubcap for an eye who clutches a Volkswagen Beetle can be found in Seattle's Fremont neighborhood. A character named after this type of creature is the best friend of Snufkin and the love interest of the Snork Maiden in Tove Jansson's *Moomin* series. A pickpocket-foiling talking purse alerts a trio of these creatures who are kept arguing for hours by (*) Gandalf in *The Hobbit*. Businesses who primarily make money through frivolous IP litigation are said to be the "patent" type of these creatures. Peer Gynt decides not to become one of these creatures by marrying the daughter of their Mountain King. For 10 points, name these Scandinavian beings that give their name to deliberately inflammatory posters on the Internet.

ANSWER: **trolls** [accept **Boyg** until "Boyg" is read; accept patent **trolls**; prompt on giants]
<Jose, Mixed/Other/General Knowledge>

19. This writer imagined looking down upon Rome from the Janiculum in an autobiography styled after *The Vicar of Wakefield*. This writer used the analogy of a trip from Bologna to Rome to describe the process of "crystallization" in his book *On Love*. This writer, who famously described feeling dizzy upon entering Florence for the first time, wrote a novel in which the protagonist escapes from the Farnese Tower with the help of his aunt Gina, who is wooed by Count (*) Mosca. The death of Clélia prompts Fabrizio del Dongo to retreat to the title monastery in a novel by this man, who also wrote a novel in which Julien Sorel must choose between careers in the church and the army. For 10 points, name this French author of *The Charterhouse of Parma* and *The Red and the Black*.

ANSWER: **Stendhal** [accept Marie-Henri **Beyle**]
<Kothari, Literature - European>

20. The stability of these systems can be characterized by the ratio of two forms of pressure; that ratio is symbolized beta. The product of Boltzmann's constant, temperature, and number density gives these systems' namesake pressure. When these systems are subject to a tension force proportional to "B dot grad B," they can be compressed into "pinches," according to ideal (*) MHD. These substances are confined at very high temperatures and densities in a torus-shaped device called a tokamak to perform nuclear fusion. Natural examples of these substances include the aurora borealis, the ionosphere, and lightning. For 10 points, name these ionized gases usually considered the fourth state of matter.

ANSWER: **plasmas** [prompt on tokamaks or stellarators until "namesake pressure" is read]

<Wang, Science - Physics>

21. An enzyme that oxidizes this compound switches between particulate and soluble forms based on the presence of copper and is this compound's namesake "mono-oxygenase." This molecule is produced when coenzyme B reacts with a modified version of coenzyme M. Frank Keppler controversially proposed that plants directly emit this molecule into the atmosphere to contribute to the greenhouse effect. Members of a group of archaea named for producing this gas are commonly found in (*) wetlands. This compound, which is formed by the reduction of carbon dioxide, is the principal component of biogas. This compound significantly contributes to greenhouse gas emissions from livestock. For 10 points, name this simplest hydrocarbon with formula CH₄.

ANSWER: **methane** [accept **CH₄** until read]

<Ramaswami, Science - Biology>



NSC 2018 - Round 24 - Bonuses

1. A follow-up to this experiment involved a pet hamster named Tisha, who was made an official co-author in a paper written by the scientist who conducted it. For 10 points each:

[10] Name this unusual demonstration conducted by Andre Geim (**GUY'm**) and Michael Berry, who won an Ig Nobel Prize for their efforts. It relies on the diamagnetic properties of water.

ANSWER: **levitating a frog** [accept descriptive answers indicating making a **frog float** using magnets; prompt on levitation]

[10] It's easy to levitate a frog inside one of these cylindrical coils of wire.

ANSWER: **solenoids**

[10] The main practical use of magnetic levitation is to make super-fast examples of this form of transportation.

ANSWER: **trains** [accept maglev **trains** or bullet **trains**]

<Wang, Science - Physics>

2. Identify the following about some artists who have depicted Dante in their works, for 10 points each.

[10] A portrait by Domenico di Michelino of Dante standing before this Tuscan city hangs in its Cathedral, which is near a Baptistry whose doors were designed by Andrea Pisano and Lorenzo Ghiberti.

ANSWER: **Florence** [or **Firenze**]

[10] This artist painted idealized portraits of Dante and Petrarch. Some theater masks rest below the feet of a god about to throw rose petals on two of the title figures in this Mannerist's best known canvas.

ANSWER: Agnolo **Bronzino** [or **Agnolo di Cosimo** or Il **Bronzino**] (That painting is *Venus, Cupid, Folly, and Time*.)

[10] This French artist depicted Dante and Virgil standing on a barque. In one of his best-known paintings, a youth holds pistols next to the bare-breasted title figure, who wears a Phrygian cap.

ANSWER: Eugene **Delacroix** [or Ferdinand Victor Eugène **Delacroix**]

<Bentley, Arts - Painting>

3. This author's comparatively sparse output, due to his obsession with aesthetics and finding "le mot juste," or "the right word," led Walter Pater to call him "the martyr of style." For 10 points each:

[10] Name this French author who obsessively researched, but never completed, his satirical novel *Bouvard et Pécuchet*. He did successfully complete such novels as *Salammbô* and *Sentimental Education*.

ANSWER: Gustave **Flaubert**

[10] The title character of this Flaubert novel has several affairs after finding herself unsatisfied by her marriage to the mediocre doctor Charles.

ANSWER: **Madame Bovary**

[10] Flaubert maintained an extensive correspondence with this female author of the novels *Consuelo* and *Indiana*, who regularly dressed in men's clothing and smoked in public.

ANSWER: George **Sand** [or Amantine Lucile Aurore **Dupin**]

<Carson, Literature - European>

4. The number of sexual harassment suits in the US doubled in the five years following Anita Hill's testimony at this man's confirmation hearing. For 10 points each:

[10] Identify this African American confirmed to the Supreme Court in 1991.

ANSWER: Clarence **Thomas**

[10] In 1977, Paulette Barnes filed a suit after being fired from this government agency for refusing sexual advances from a superior. This agency was founded during the Nixon administration and set regulations for catalytic converters.

ANSWER: **EPA** [or **Environmental Protection Agency**]

[10] Susan Antilla's book *Tales from the Boom-Boom Room* details her quest to get justice for sexual harassment at businesses in this title location. A newspaper named for this location was founded by Charles H. Dow and is now owned by Rupert Murdoch.

ANSWER: **Wall Street** [or **Wall Street Journal**; do NOT accept "New York" as that's not in the name of the paper]

<Bentley, History - American>

5. This man had a vision in which George Washington, the leader of the Thirteen Fires, declares, "I shall let [your people] live and go back to the places that are theirs for they are an independent people." For 10 points each:

[10] Identify this man who delivered the Good Message, also called his namesake "Code," to his people, thus founding the Longhouse Religion.

ANSWER: **Handsome Lake** [or **Sganyadáí:yo**; or **Sganyodaiyo**]

[10] Handsome Lake's Longhouse Religion was practiced by members of this Native American confederacy that includes tribes such as the Oneida and Mohawk.

ANSWER: **Iroquois** Confederacy [or **Haudenosaunee**]

[10] Smohalla was a leader of a religion named for experiencers of these things that was popular in the Pacific Northwest. The Ojibwe made willow hoops to "catch" these things.

ANSWER: **dreams** [accept **Dreamers** or **dream catchers**]

<Bentley, RMP - Other Religion>

6. A 1717 act sometimes called the Piracy Act provided for this punishment as an alternative to execution in cases of "robbery, burglary, and other felonies." For 10 points each:

[10] Identify this type of sentence, also applied to many Irish during the campaigns of Oliver Cromwell.

ANSWER: **transportation** to a penal colony [accept equivalents like being **shipped** to a British colony]

[10] People convicted of treason might first undergo this punishment before being cut down so that they could be drawn and quartered. A gallows was usually used to administer this form of execution.

ANSWER: **hanging**

[10] Englishmen who refused to plea to a crime were subject to this "forceful and hard punishment" until they changed their mind or died. Giles Corey died from this punishment during the Salem Witch Trials.

ANSWER: **pressing** [or **crushing**; accept obvious equivalents of having **objects** or **weights placed** on the body]

<Bentley, History - European>

7. Answer some questions about the term "conjugate" in chemistry, for 10 points each.

[10] According to Huckel's rule, a molecule is aromatic if it is conjugated, cyclic and has this property. Many rings deviate from this property by adopting a puckered conformation.

ANSWER: **planarity** [accept descriptive answers suggesting the molecule is **flat**]

[10] Hyperconjugation can provide additional stabilization by donating electrons into this type of molecular orbital, denoted with a star. These molecular orbitals are found on the upper half of an MO (M-O) diagram.

ANSWER: **antibonding** molecular orbital [prompt on molecular orbital, do not prompt "bonding molecular orbital"]

[10] Mixing a weak acid and its conjugate base or a weak base and its conjugate acid produces one of these solutions, which resists a change in pH.

ANSWER: **buffer** solutions [or **buffer** systems]

<Prieto, Science - Chemistry>

8. This body part titles a book by Paul Ehrlich (**AIR-lick**) and Sandra Kahn, which argues that breathing issues can be caused by shrinkage in this body part in hominids over evolutionary time. For 10 points each:

[10] Name this body part, which is especially large in *Paranthropus boisei*, lending a nickname to a specimen called OH 5. A high sagittal (**SAJ-ih-tul**) crest indicates strong muscles used by this body part.

ANSWER: **jaws** [prompt on head or face] (OH 5 is called "Nutcracker Man.")

[10] The shrinking of jaws in human ancestors was caused in part by the rise of this behavior, which reduced strain on the jaws. This behavior "made us human," according to Richard Wrangham's *Catching Fire*.

ANSWER: **cooking** [or **cooking**; prompt on vaguer answers like food preparation or equivalents]

[10] The occurrence of this kind of phenomenon in remains of human teeth is sharply correlated with consumption of sugars and carbohydrates due to the rise of agriculture.

ANSWER: dental **cavities** [or dental **caries**; or tooth **decay**; prompt on periodontitis]

<Kothari, Social Science - Anthropology>

9. Identify the following about the Federal Theatre Project, for 10 points each.

[10] One playwright with whom the Federal Theatre Project negotiated a special low royalty rate was this author, who adapted *Cry, the Beloved Country* into the musical *Lost in the Stars* with Kurt Weill and drew on the Sacco-Vanzetti case for his play *Winterset*.

ANSWER: Maxwell **Anderson** [or James Maxwell **Anderson**]

[10] The FTP orchestrated 21 simultaneous premieres for a stage adaptation of *It Can't Happen Here*, an anti-fascist novel by this author that imagines Buzz Windrip becoming President.

ANSWER: Sinclair **Lewis** [or Harry Sinclair **Lewis**]

[10] The FTP produced "living" versions of these publications, such as *Triple-A Plowed Under*. The title character of Nathanael West's *Miss Lonelyhearts* write an advice column for a publication of this type.

ANSWER: newspapers

<Bentley, Literature - American>

10. After a failed attempt at performing this role, Arthur Rubinstein told Gary Bertini that "after all these years, I had no idea; but now I finally understand." For 10 points each:

[10] Identify this musical position that Otto Klemperer held in Los Angeles in the 1930s.

ANSWER: **conductor** [or chief **conductor**; prompt on music **director** or director of a **symphony** or equivalent]

[10] Conductors often use a staff or one of these objects. Some of these objects were sold with classical LPs in the 1960s so a listener could pretend to be conducting at home.

ANSWER: **baton** [prompt on **stick**]

[10] Untrained magazine tycoon Gilbert Kaplan hired the American Symphony Orchestra to let him "conduct" this symphony to friends at the Lincoln Center. The choral finale of this 1895 C minor symphony was inspired by a Friedrich Klopstock (**CLOP-shtock**) piece.

ANSWER: Symphony No. **2** by Gustav **Mahler** [or **Resurrection Symphony**; prompt on Symphony No. **2** in C minor]

<Bentley, Arts - Music>

11. During the "Scramble for Africa," this European power colonized Guinea-Bissau and Angola. For 10 points each:

[10] Name this Iberian country that lost many of its Lusophone African colonies during the Estado Novo government.

ANSWER: **Portugal** [or the **Portuguese Empire**]

[10] In this former Portuguese colony, a protracted civil war between the Marxist group FRELIMO and anti-Communist party RENAMO lasted for almost two decades.

ANSWER: Republic of **Mozambique**

[10] Portugal became the first European power to colonize Africa after it conquered this city in the 15th century. Since the 1688 Treaty of Lisbon, Spain has controlled two exclaves on the Moroccan coast, this city and Melilla.

ANSWER: **Ceuta** (**SYOO-tah** or **say-OO-tah**)

<Jose, History - World>

12. These equations are "ordinary" when they have only one independent variable. For 10 points each:

[10] Name these equations that include functions and their derivatives. Several theorems exist concerning the existence and uniqueness of their solutions.

ANSWER: **differential** equations [or **ordinary differential** equations; or **partial differential equations**]

[10] A theorem that shows the local existence, but not uniqueness, of solutions to an ODE is named after this Italian mathematician. His nine axioms are used to define the natural numbers.

ANSWER: Giuseppe **Peano** [or the **Peano axioms**]

[10] The stronger Picard–Lindelöf theorem shows existence and uniqueness, but requires that the function possesses a stronger form of this property named after Lipschitz. A function is smooth if all of its derivatives have this property.

ANSWER: **continuity** [accept word forms like **continuous**]

<Minarik, Science - Math>

13. A statue of this man created by John Quincy Adams Ward stood on the front steps of the Old Sub-Treasury Building in New York City. For 10 points each:

[10] Name this man, who is shown riding a horse in an equestrian statue by the American sculptor Clark Mills.

ANSWER: George **Washington**

[10] This neoclassical sculptor created a bare-chested sculpture of George Washington that was modelled on Phidias's statue of Zeus. He depicted a clash between a pioneer family and a group of Native Americans in his sculpture *The Rescue*.

ANSWER: Horatio **Greenough**

[10] A bust of George Washington can be found inside of the Washington Monument, which consists of one of these tall, narrow statues that have pyramids on their caps. This kind of structure originated from ancient Egypt.

ANSWER: **obelisks**

<Jose, Arts - Sculpture>

14. Sections of this author's essay collection *A Fish in Water* recount his 1990 campaign for president. For 10 points each:

[10] Name this Nobel-winning Peruvian author, who interspersed scripts for telenovela serials ostensibly written by the eccentric Pedro Camacho throughout his 1977 novel *Aunt Julia and the Scriptwriter*.

ANSWER: Mario **Vargas** Llosa (VAR-gahss YOH-sah) [or Jorge Mario Pedro **Vargas** Llosa; prompt on Llosa]

[10] Vargas Llosa used his own experience at the Leoncio Prado Military Academy as the basis for this novel, his first, in which Jaguar leads a group of boys in stealing an upcoming chemistry exam.

ANSWER: *The **Time of the Hero*** [or *La **ciudad y los perros***; accept *The **City and the Dogs***]

[10] Urania Cabral returns to Santo Domingo at the beginning of this Vargas Llosa novel, which also depicts the period surrounding the assassination of the Dominican dictator Rafael Trujillo.

ANSWER: *The **Feast of the Goat*** [*La **fiesta del chivo***]

<Carson, Literature - World>

15. This creature is sometimes conflated with Fintan mac Bóchra, who traveled with Noah's granddaughter Cessair (**kess-air**) and survived the deluge by hiding in a cave in a form similar to this creature. For 10 points each:

[10] Name this inhabitant of the Boyne River who ate sacred hazelnuts.

ANSWER: the **Salmon of Knowledge** [or **bradá n feasa**; prompt on partial answers]

[10] This leader of the Fianna and creator of the Giant's Causeway gained wisdom from the Salmon of Knowledge when he burned his thumb cooking it.

ANSWER: **Finn** McCool [or **Fionn** mac Cumhail]

[10] Much of the Fenian cycle is narrated by this son of Finn, who was reputed to be Ireland's greatest poet. James MacPherson attributed a number of fraudulent poems to a poet based on this character; the name of either is acceptable.

ANSWER: **Oisín** (uh-SHEEN) [or **Ossian** (AW-shin)]

<Grames, RMP - Other Myth>

16. This chemical has B and Y types, both which are derivatives of fluorescein (**flor-ESS-ee-in**), and it is the most common chemical used to stain the cytoplasm. For 10 points each:

[10] Name this dye that generally stains pink. It is commonly used with hematoxylin (**hee-ma-TOX-ilin**) in the H&E stain for medical diagnosis.

ANSWER: **eosin** (**EE-oh-sin**)

[10] Eosinophils, which get their name for their strong affinity to staining with eosin, are one subtype of these cells. These blood cells are crucial to the immune system by protecting the body from foreign invaders.

ANSWER: **white blood** cells [or **WBCs**; or **leukocytes**; accept **granulocytes**; accept **myeloid** cells]

[10] This category of white blood cells is named for only staining weakly on the H&E stain. These cells make up the majority of pus that is formed during acute inflammation.

ANSWER: **neutrophils** [or **neutrocytes**]

<Ramaswami, Science - Biology>

17. In a practice named for this month, people would be baptized and given new names such as Lenin, Marx, or Engels. For 10 points each:

[10] Identify this month that names the 1917 revolution in which the Bolsheviks seized power.

ANSWER: **October**

[10] Another common post-Octobering name was this one, the name of the official newspaper of the Soviet Union. Lenin once edited this paper, whose name means "truth."

ANSWER: **Pravda**

[10] Membership in this youth organization swelled following the October Revolution. After aging out of the Little Octobrists and Pioneers, young adults would join this organization.

ANSWER: **Komsomol** [or **All-Union Leninist Young Communist League**; or **Vsesoyuzny Leninsky Kommunistichesky Soyuz Molodyozhi**]

<Bentley, History - European>

18. Michael Ghiselin and David Hull have contended that these entities are spatiotemporally extended individuals rather than natural kinds. For 10 points each:

[10] Name this kind of entity, a "biological" concept of which was developed by Ernst Mayr.

ANSWER: **species**

[10] Hull argues that species must be individuals because they are units of this process. Charles Darwin introduced a theory of this process through natural selection.

ANSWER: **evolution**

[10] This evolutionary theorist who developed the theory of "punctuated equilibrium" with Niles Eldridge also attempted to reconcile religion and science through his theory of non-overlapping magisteria.

ANSWER: Stephen Jay **Gould**

<Kothari, RMP - Philosophy>

19. This island is sometimes called the "eighth continent" because of its extreme biodiversity. For 10 points each:

[10] Name this island, which is separated from the mainland of Africa by the Mozambique Channel.

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

[10] Six of the nine species of this tree can be only be found in Madagascar. An "Avenue of" these trees is an oft-visited tourist site in the city of Morondava.

ANSWER: **baobab** trees [or *Adansonia*]

[10] The silky sifaka and Madame Berthe's mouse are two of the hundred species of these primates that are endemic to Madagascar. Conservation International calls these animals "Madagascar's Flagship Species."

ANSWER: **lemurs** [or mouse **lemurs**; or *Microcebus*; or *Lemuroidea*]

<Jose, Geography - World>

20. A character with this profession recalls how Lord Darlington hosted dinner parties for Nazis because he misunderstood their goals. For 10 points each:

[10] Name this profession of Stevens, who goes on a road trip to see Miss Kenton in the novel *The Remains of the Day*.

ANSWER: **butler**

[10] *The Remains of the Day* is a novel by this British author, who also wrote about an aging painter in post-World War II Japan in *An Artist of the Floating World*.

ANSWER: Kazuo **Ishiguro**

[10] The title butler transforms the tropical island that Lord Loam's household is shipwrecked on in *The Admirable Crichton*, a play by this author. This Victorian author was best known to his contemporaries for comic plays like *What Every Woman Knows*.

ANSWER: J. M. **Barrie** [or James Matthew **Barrie**]

<Grames, Literature - British>

21. In his first appearance, this character throws his arm over the narrator in the "most loving and affectionate manner" while sleeping in a marriage bed of a landlord. For 10 points each:

[10] Name this character, a harpooner who owns an idol of a "black little god" named Yojo.

ANSWER: **Queequeg**

[10] Queequeg's possible homosexuality is often discussed in readings of this novel. Flask's question of "Don't ye love sperm?", which is asked when the ship the *Pequod* meets the *Virgin*, is also discussed in queer readings of this novel.

ANSWER: ***Moby-Dick***; or The Whale

[10] Eve Sedgwick's *Epistemology of the Closet* reads this character from Melville's *Billy Budd* as a homosexual "different in his essential nature than the normal men around him." Billy is hanged for killing this master-at-arms of the *Bellipotent*.

ANSWER: **John Claggart** [accept either underlined name]

<Jose, Literature - American>

