



NASAT 2016
Round 9

1. This pope appointed Pellegrino Rossi to promote his economic agenda, which was never implemented due to Rossi's assassination. This man's election to the papacy was opposed by the Austrian Cardinal Gaisruck, but the conclave made its decision before Gaisruck's veto arrived in Rome. The Black Nobility sided with this pope, who rejected the Law of Guarantees. This pope listed eighty "condemned propositions" in the *Syllabus of Errors*. Through the bull *Ineffabilis Deus*, he defined the concept of the Immaculate Conception, and he oversaw the definition of papal infallibility at the First Vatican Council. This pope became the "prisoner of the vatican" after the Papal States were seized by Italian forces. For 10 points, name this longest-reigning pope.

ANSWER: **Pius IX** [or Giovanni **Mastai-Ferretti**; prompt on **Pius**] <Droge>

2. At one point, this hero strikes an enemy with such force that his enemy is sent spinning around like a top. This hero prays to Zeus that if he dies, it at least be in the light, which causes the mist upon the battlefield to recede and reveal the corpse of his fallen comrade. This hero is chosen by lot to engage in a duel that lasts until two heralds of Zeus show up to declare it a draw. Afterwards, this hero receives a sharp silver sword and gives his opponent Hector a purple sash in exchange. This hero fights with his brother, the archer Teucer, as he provides protection with his enormous shield covered in seven ox hides. For 10 points, name this son of Telamon who shares his name with a "lesser" hero.

ANSWER: **Ajax** the Greater [or Telamonian **Ajax**] <Kim>

3. This adjective is applied to a metalworking technique in which a significant reduction in ductility but significant increase in yield strength is achieved by plastic deformation, a technique sometimes called strain hardening. As a classification, this adjective denotes particles that are massive enough to move at sub-relativistic velocities, characteristically seeding small-scale structure formation, such as galaxies. A type of plasma denoted by this adjective is typically collisionless because it has zero pressure. Candidate particles for which this adjective is a classification *do not include* neutrinos but *do include* WIMPs and MACHOs. The standard model of cosmology is the lambda plus dark matter model where this adjective applies to dark matter. For 10 points, identify this adjective which, when prefixed by "ultra", names a field of physics that studies the behavior of atoms near absolute zero.

ANSWER: **cold** [or word forms; or **cold** forming; or **cold** working; or **cold** dark matter; or **cold** plasmas; prompt on **dark** matter] <Voight>

4. A character with this surname is amused by the buttons on a telephone while requesting an ambulance for a resident of 244 East 87th Street. This surname is borne by a character who notes that "history is about to crack wide open" before ominously stating that "millennium approaches". That character with this surname would probably still be alive today writing for *Ms.* magazine if not for the efforts of Roy Cohn, who is haunted by a character with this surname while dying of AIDS in the play *Angels in America*. The opening line of Sylvia Plath's *The Bell Jar* mentions that the novel takes place during "the summer that they electrocuted" two people with this surname. For 10 points, give this surname shared by Julius and Ethel, who were accused of spying for the Soviet Union.

ANSWER: **Rosenberg** <Clarke>

5. In the film that started this genre, the protagonist uses his handcuffs to nearly beat two policemen to death, saving Mu-Mu. The soundtrack to a film from this genre features a prominent rototom (ROH-toh-TOM) break on the song "Pusherman". A seminal action film in this genre focusing on a plan to rescue a mobster's daughter from mafiosi was directed by photographer Gordon Parks. In addition to women in prison films, Pam Grier gained fame for starring in these movies. Following the lead of Isaac Hayes's work for *Shaft*, many of these films featured funk- and soul-heavy soundtracks, and they often examined issues such as drug trafficking and racial profiling. For 10 points, name this film genre popular in the 1970s, designed to appeal to African-Americans.

ANSWER: **blaxploitation** [prompt on exploitation films] <Gupta>

6. A character in this play hides Charles Darwin's *On the Origin of Species* in the library's theology section so that he can finish reading it. Near the end of this play, a character spends his bus fare to have the jukebox play Sarah Vaughan's "Little Man, You've Had a Busy Day". A character in this play titles a prospective essay about an event of cultural significance "A World Without Collisions". A title character of this play is upset to learn that this alcoholic, one-legged father will be returning home from the hospital. This play begins with the black men Sam and Willie practicing ballroom dancing, and ends after the young, white Hally spits in Sam's face. For 10 points, name this short play by Athol Fugard.

ANSWER: **"Master Harold" ...and the Boys** <O'Rourke>

7. This state's Johns Committee published an anti-homosexual booklet known as the "Purple Pamphlet". Arthur McDuffie was killed by police in this state after a high-speed chase, leading to 1980 riots. The Save Our Children coalition was formed in this state by singer Anita Bryant to repeal a county ordinance banning discrimination based on sexual orientation. The Liberty City riots broke out in this state after the failure of then-State Attorney Janet Reno to convict police officers. About 150,000 immigrants, many from prison or mental institutions, arrived in this state during the Mariel Boatlift. Secretary of State Katherine Harris controversially halted recount proceedings in this state. For 10 points, "butterfly ballots" and "hanging chads" complicated what state's presidential elections in 2000?

ANSWER: **Florida** <Cheyne>

8. This author wrote a short story, "At the Auction of the Ruby Slippers", about his beloved childhood movie *The Wizard of Oz*. His first nonfiction book was about his trip to Nicaragua after being invited by the Sandinistas. In August 1993, this writer made a surprise appearance during a U2 concert at Wembley Stadium. This author of *The Jaguar Smile* wrote about his break-up with writer Marianne Wiggins and his use of the title pseudonym in the memoir *Joseph Anton*. Cat Stevens controversially claimed he would "ring somebody who might do" damage to this man if he ever ran into him. In 1991, two translators of a novel by this man were stabbed. For 10 points, name this Indian author, the subject of a 1989 fatwa calling for his death issued by the Ayatollah Khomeini.

ANSWER: Salman Rushdie [or Ahmad Salman Rushdie] <Cheyne>

9. One type of this quantity is defined by assuming it equals number one, then inductively increasing its value by one every time a set is "stretched" such that the closure of a subset V includes every open set X containing a point. Richard Bellman coined the term for the so-called "curse" of this quantity, which makes solving nearest neighbor searches hard when n is greater than two. In linear algebra, the rank-nullity theorem states that the rank plus the kernel of a matrix equals this value. Fractals often taken on non-integer values for the Hausdorff form of this quantity. For 10 points, name this quantity that is the number of coordinates needed to specify a point in an object, which may be one for a line and two for a square.

ANSWER: dimension [or inductive dimension; or Hausdorff dimension] <Jose>

10. This substance is consumed in banana mush during a ritual of the Yanomami people. Israelites who had come in contact with a corpse could be purified by this substance after the sacrifice of a Red Heifer. Worshipers of Shiva use a type of this substance to create a three-lined *tilaka* on their foreheads; that type of this substance is called *vibhuti*. In Buddhism, pearl-like beads found in this substance are treated as relics called *sarira*. This substance is brought to special ghats in Varanasi and spread on the Ganges River. This substance is made from palm branches, then used to draw crosses on the foreheads of worshipers on the first day of Lent. For 10 points, the first Wednesday of Lent is named for what substance that is created by cremation and wood fires?

ANSWER: ashes [prompt on burnt wood, burnt corpses, burnt bones, cremated remains, or obvious equivalents] <Brownstein>

11. This symphony begins with a loud unison C, followed by two quick ascending figures from G back up to C. This symphony was written during the same summer that produced its composer's previous two symphonies, in E-flat major and in G minor. Its first movement introduces a theme taken from its composer's insertion aria "Un bacio di mano". Its fourth movement begins with first violins playing the motif "C D F E" in long whole notes, and introduces a total of five different themes that are later weaved into a large fugato passage in its coda. Johann Peter Salomon coined the nickname for this symphony, comparing its magnificence to that of the chief Roman god. For 10 points, name this final symphony of Wolfgang Amadeus Mozart.

ANSWER: Jupiter Symphony [or Wolfgang Amadeus Mozart's *Symphony No. 41* in C major; or K. 551; or *Symphony No. 41* after Mozart is read] <Kim>

12. The protagonist of a drama by this author learns that the father of his intended bride has withdrawn permission for the match at a funeral, though in reality he is more concerned with the advanced pregnancy of his lover. A quote that translates as "I myself am closest to myself" from that play erroneously leads to the line "Charity begins at home" being attributed to this writer. A play by this man begins with a woman unable to go through with her promise to kill her child if it is born a girl. In that play, Menedemus drives his son Clinia into fighting in the Persian Wars after he discovers Clinia's relationship with Antiphila. Thornton Wilder based *The Woman of Andros* on this writer's drama *Andria*. For 10 points, name this Roman comedic playwright of *The Self-Tormentor*.

ANSWER: **Terence** [or Publius **Terentius** Afer] <Droge>

13. A man from this city proposed an alliance at the Congress of Gela that has been called an "ancient Monroe Doctrine". This city was aided by the outsider Gylippus, who beat down both Demosthenes and Nicias. A king of this city suspected that a goldsmith was stealing gold he had received to make a votive crown. Legendarily a man died in this city after telling a soldier "do not disturb my circles", despite the orders of Marcus Claudius Marcellus. That man who lived here is said to have designed such things as a "claw" to shake ships and a heat ray to defend it. The birthplace of Archimedes, this city was the largest on an island targeted in a disastrous Athenian expedition during the Peloponnesian War. For 10 points, what city was the most powerful on the island of Sicily?

ANSWER: **Syracuse** [or **Siracusa**] <Cheyne>

14. A yearly "passion play" in this city began after an 1843 cholera epidemic and unusually depicts the harem of King Herod. That ceremony ends with the Crucifixion taking place on its Cerro de la Estrella. An image of the Child Jesus dubbed "Niñopa" is venerated by residents of one of this city's boroughs, whose canals are navigated by *trajineras*. Many tourists in this city visit a *tilma*, or cloth, on which an image of the Virgin Mary miraculously appeared. The largest cathedral in the Americas sits at the northern end of this city's Constitution Square, or Zócalo. Pilgrims flock to this city's Basilica of Our Lady of Guadalupe. For 10 points, name this city home to the most Catholics, as well as the most residents, of any North American city.

ANSWER: **Mexico City** [or **Ciudad de México**] <Golimlim>

15. A value named for this phenomenon can be given in terms of temperature, salinity, and depth by four empirical formulas named for Medwin, Mackenzie, Coppen, or Chen and Millero. Governing equations of a technology that is named for, and uses, this phenomenon incorporate the directivity index as part of finding the detection threshold. A "mushroom" named for this phenomenon is a piezoelectric transducer made from PZT and called a tonpilz (TONE-pilts). It's not temperature, but the thermocline has a negative gradient in a characteristic value for this phenomenon, thus reflecting it. A side-scanning technology collects data derived from waves of this phenomenon with a towfish and can be used to construct a bathymetric profile. For 10 points, waves of what phenomenon are used by technology that detects objects underwater?

ANSWER: **sound** waves [or **noise**; or **acoustic vibrations**; prompt on mechanical or pressure waves, or vibrations; do not accept "sonar"] <Voight>

16. Software programs for creating panoramic photographs follow a rule devised by an 18th-century painter from this present-day country for rendering images with very wide fields of view. A Baroque palace in this country is decorated with a fresco depicting Cleopatra dissolving a pearl in a goblet of wine. An artist who catalogued many of this country's ruins in his engravings produced many etchings of elaborate fantasy prisons. An artist from this country painted ramshackle houses overlooking a construction site in *The Stonemason's Yard*, one of his many "views", or *vedute*, popular among Europeans undergoing the Grand Tour. For 10 points, name this present-day country whose 18th-century art includes Canaletto's paintings of the canals of Venice.

ANSWER: **Italy** [or **Italian** Republic; or Repubblica **Italiana**] <Gupta>

17. Closure and opening of a valve in this structure correspond to aortic notches and waves, respectively. The foramen of Panizza uniquely connects left and right versions of this structure in crocodilians. This structure necessarily has the highest compliance, which is needed to lower pulse pressure. A portion of this structure is affected by a condition denoted "triple A" that can have a 90 percent mortality rate if it ruptures. The sinuses of Valsalva containing the origins of the coronary arteries are nestled between the wall of this structure and its namesake semilunar valve. It branches into the brachiocephalic, left subclavian, and left common carotid arteries after ascending from the left ventricle. For 10 points, name this large artery that receives oxygenated blood from the heart.

ANSWER: **aorta**

18. In a play by this dramatist, a woman sings in Italian as her husband pulls her hair and threatens to stab her if she doesn't reveal who has impregnated her. In that play by this dramatist, a man declares "the hapless fruit... hath had from me a cradle and a grave" after he stabs a woman's womb. This dramatist created a servant who pretends to be disloyal to his master, encouraging Hippolyta in a plot that ends with her poisoning herself at a wedding. This author of *The Broken Heart* included a scene in which Vasques stabs out the eyes of a bawdy servant in a play that details the consequences of Annabella and Giovanni's incestuous affair. For 10 points, name this Jacobean playwright of *'Tis Pity She's a Whore*.

ANSWER: John **Ford** <Droge>

19. This man sponsored the Municipal Ownership League specifically to defeat Mayor George McClellan Jr. His comment in June 1901 that "assassination can be a good thing" hurt his standing when William McKinley was killed months later, and likely contributed to his tight loss to Charles Evans Hughes for governor of New York in 1906. This man founded Cosmopolitan Pictures to produce films starring his lover, actress Marion Davies. This man's institution produced George Herriman's "Krazy Kat" comic. He legendarily told Frederic Remington "you furnish the pictures and I'll furnish the war", in speaking about war in Cuba. For 10 points, name this publisher of the *New York Journal* who feuded with the *New York World* publisher, Joseph Pulitzer.

ANSWER: William Randolph **Hearst** <Cheyne>

20. Xenocrates asserted that Plato's forms originated first as these objects. Aristotle related an account of the "formal" type of these objects, which cannot be combined because they are comprised of fundamentally different units. Frege's Julius Caesar problem asks how, with a certain set of definitions, we can prove that the conqueror of Gaul is not this type of object. A three-volume definitive reference edition of the works of Plato is divided into a set of these things named after Henricus Stephanus. Pythagoreans believed these things to be the first order of the universe, coming before even the elements. For 10 points, name these mathematical objects that come in real, natural, and imaginary forms.

ANSWER: numbers <Droge>

21. This man's father Immanuel invented a rotary lathe used to manufacture plywood as well as an underwater mine that interested Nicholas I. He wrote a play about a murderous Italian noblewoman titled *Nemesis*. This man kept up a correspondence with Baroness Bertha von Suttner, who is believed to have pushed him to promote pacifism. The French government accused him of treason for selling his invention of ballistite to the Italians. This man acquired the company Bofors in 1894. The line "the merchant of death is dead" was part of this man's premature obituary which he himself read in 1888; that obituary chastised him for inventing dynamite. For 10 points, what Swede names a series of prizes that reward scientific or cultural achievements?

ANSWER: Alfred Nobel [or Robert, Ludvig, or Emil Nobel until "Nemesis"] <Cheyne>

1. This process may be preceded by formation of a namesake niche via exosomal education. For 10 points each:

[10] Name this pathological process that proceeds through invasion, intravasation, and extravasation steps and results in primary cancer cells establishing distant secondary tumors.

ANSWER: metastasis

[10] Carcinoma metastasis is enabled by hijacking a namesake process in which cells in this type of tissue lose polarity and gain invasive properties by switching into mesenchymal stem cells.

ANSWER: epithelial [or epithelium]

[10] Repression of this glycoprotein at its Ets and E-box sites by PI3K/Akt and Snail is critical to EMT. Like other members of its family, this protein binds to beta-catenin to form adherens junctions.

ANSWER: E-cadherin [or Cadherin-1; or epithelial cadherin; or CDH1; prompt on cadherin] <Smart>

2. A 1971 letter to the *New York Review of Books* dryly noted that this book's title obviously "refers to women's nipples", prompting a rebuttal by Virgil Thomson. For 10 points each:

[10] Name this book of poetry whose sections are titled "Objects", "Food", and "Rooms". An early poem in this collection is titled "A Carafe, that is a Blind Glass", and many of the poems have nontraditional grammar and titles, such as "Glazed Glitter" and "A Piece of Coffee".

ANSWER: Tender Buttons

[10] *Tender Buttons* is a book by this woman, an American who moved to France in 1903. In her poem "Sacred Emily", she wrote the infamous line "rose is a rose is a rose is a rose".

ANSWER: Gertrude Stein

[10] Stein's memoir of her life in Paris is purported to be the autobiography of this woman, her life partner, and is one of the few Stein works that is actually readable. This woman wrote a 1954 "cookbook" that contains a recipe for cannabis brownies.

ANSWER: Alice B. Toklas <Cheyne>

3. The popularity of "trad jazz" in 1950s Britain enabled Acker Bilk to record a hit piece for this instrument, "Stranger on the Shore". For 10 points each:

[10] Name this single-reed woodwind instrument played by the swing-era musicians Artie Shaw, Woody Herman, and Benny Goodman.

ANSWER: clarinet

[10] Clarinetists such as Jimmie Noone and Sidney Bechet (beh-SHAY) were part of the "front line" of bands that played in this city. The "Chicago" style of jazz was developed by musicians leaving this city.

ANSWER: New Orleans

[10] Though it was gradually replaced by the saxophone, the clarinet played a prominent role in free jazz, particularly on this diabetic musician's 1964 album *Out to Lunch!*

ANSWER: Eric Dolphy [or Eric Allan Dolphy, Jr.] <Gupta>

4. One ship sunk in this battle names a set of reparations demanded by the United States from the United Kingdom that were resolved at the 1871 Treaty of Washington. For 10 points each:

[10] Identify this naval duel of the Civil War that took place off the French coast. Give either the name of the battle or the names of *both* the Confederate raiding ship and the Union warship.

ANSWER: Battle of Cherbourg (SHARE-boor) [or the battle between the USS Kearsarge AND the CSS Alabama]

[10] A more famous one-on-one naval confrontation during the Civil War was this stalemated 1862 battle, the first in history to feature two ironclads pitted against each other.

ANSWER: Battle of Hampton Roads [or USS Monitor versus CSS Merrimack]

[10] The Confederacy had more success against the USS *Housatonic*, which was sunk in Charleston harbor with the aid of one of these devices named for H. L. Hunley. The *Pioneer* was an earlier Confederate attempt at creating one of these things.

ANSWER: submarines [or sub] <Lou>

5. Answer the following about the Council of Chalcedon, for 10 points each.

[10] The Council declared that this being had two natures, godhead and manhood, in one person.

ANSWER: Jesus [or Christ]

[10] This belief was held by those who rejected the Council's ruling, arguing that Jesus, as the incarnation of the eternal Son of God, only has one nature, not two. It was strongly contrasted with Nestorianism, which Chalcedon condemned as well.

ANSWER: monophysitism [or miaphysitism; or henophysitism]

[10] The Council of Chalcedon refuted this pro-monophysite church council convened in 449 AD. Archbishop Flavian was mortally wounded at this council, which was never accepted as ecumenical.

ANSWER: Second Council of Ephesus [or the Robber Council of Ephesus; prompt on Council of Ephesus] <Marvin>

6. This city's ruler convinces Heracles to agree to a treaty after convincing him that, as a bastard, he cannot inherit Zeus's estate. For 10 points each:

[10] Name this city that accepts men who beat their fathers. Prometheus visits this city secretly, and Iris is the subject of many raunchy jokes during her trip to this city.

ANSWER: Cloudcuckooland

[10] The gods begin to starve after the title residents of Cloudcuckooland demand humans worship them instead in this Greek comedy.

ANSWER: *The* Birds [or Orinthes]

[10] *The Birds* is a comedy by this Athenian author of *The Clouds*. Dionysus goes to the underworld to bring back Euripides in his play *The Frogs*.

ANSWER: Aristophanes <Collins>

7. This politician was compared to Donald Trump after vowing to pardon himself of murder and cut ties with the United States and Australia should he become president. For 10 points each:

[10] Name this politician who won the 2016 presidential election in the Philippines. He became known as "The Punisher" by employing so-called "death squads" to reduce crime.

ANSWER: Rodrigo **Duterte**

[10] Duterte's "death squads" roamed the streets of this most populous city on the island of Mindanao.

ANSWER: **Davao** City

[10] Miriam Defensor Santiago, an opponent of Duterte, chose a member of this family named Bongbong as her running mate. A member of this family, which ruled the Philippines under martial law throughout the 1970s, owned thousands of pairs of shoes.

ANSWER: **Marcos** <Golimlim>

8. This hero tells a princess that if their unborn child is a daughter, an onyx gem should be placed in her hair, but if their child is a son, it should be sealed upon his arm. For 10 points each:

[10] Name this hero who takes part in a wrestling match in which he stabs his opponent to death before realizing that it is his own son.

ANSWER: **Rostam** [or **Rustam**]

[10] This god wrestles with Elli, the personification of old age, on a journey to Utgard in which he fails to lift a cat or guzzle down a drinking horn connected to the ocean.

ANSWER: **Thor**

[10] In his namesake Mesopotamian epic, this king of Uruk wrestles the beast-man Enkidu before striking up a mutual friendship.

ANSWER: **Gilgamesh** <Kim>

9. Infinite sets with this property have a cardinality of aleph-naught. For 10 points each:

[10] A set has what property if there exists a bijective function between the set and the natural numbers?

ANSWER: at most **countable** [or **countably infinite**; or **denumerable**]

[10] This countable set is constructed by taking ordered pairs of integers and sorting them into equivalence classes. Less formally, each of these numbers can be expressed as a fraction of integers.

ANSWER: **rational** numbers [or **Q**]

[10] For a topological space, if each open cover has a countable subcover, the space is named for this Finnish mathematician. He names an existence and uniqueness theorem for first-order differential equations with initial conditions with Picard.

ANSWER: Ernst Leonard **Lindelöf** <Collins>

10. This faction was given support and military training by a neighboring country's Group 100. For 10 points each,

[10] Name this party that came to power in Laos in 1975 under Kaysone Phomvihane (kye-SONG pohm-vee-HAHN), when it toppled the monarchy of Sisavang Vatthana.

ANSWER: **Pathet Lao**

[10] The Pathet Lao gained control over parts of northern Laos after a set of 1954 peace accords signed in this city. This European city names a series of Convention agreements on treatment of civilians during war and a protocol prohibiting biological warfare.

ANSWER: **Geneva**

[10] Much earlier, Laos's capital at Vientiane had been sacked by this "great" king of Thailand in 1775. This only member of the Thonburi dynasty defeated the Burmese invaders that had destroyed Ayutthaya and was executed by a general who took the throne as Rama I.

ANSWER: **Taksin** the Great [or Somdet Phra Chao **Taksin** Maha Rat] <Droge>

11. Objects in this orbit experience drag from atmospheric gases in the thermosphere or exosphere layers. For 10 points each:

[10] In what orbit would the Kessler effect see a collision cascade effect similar, but much much slower, to that depicted in Alfonso Cuarón's *Gravity*?

ANSWER: **low Earth orbit** [or **LEO**]

[10] For an MOS transistor, a cascode amplifier consists of a transistor in this configuration feeding a transistor in this other configuration. Name either.

ANSWER: **common source** OR **common gate** [or **CS**; or **CG**]

[10] A new Xi baryon, sometimes known as the cascade baryon, was discovered by the CMS experiment, which is attached to the LHC and—like the LHC—operated by this organization.

ANSWER: **CERN** [or **European Organization for Nuclear Research**] <Voight>

12. Supporters of this ideology clashed with protesters at the Battle of Cable Street. For 10 points each:

[10] Name this ideology whose major proponents included Oswald Mosley. Like an Italian organization that held this ideology, a "British Union" of its supporters were nicknamed "Blackshirts".

ANSWER: **fascism** [or word forms]

[10] Before founding the British Union of Fascists, Oswald Mosley left the Conservative Party for the Labour Party over the use of this anti-IRA unit of the British Army. They took their name from the colors of their mixed uniforms.

ANSWER: **Black and Tans** [or **Royal Irish Constabulary Special Reserve**]

[10] During World War II, William Joyce and other fascists made pro-Nazi radio broadcasts under this pseudonym, making fun of a remark that a *Daily Express* journalist made about a German broadcaster.

ANSWER: **Lord Haw-Haw** <Golimlim>

13. As the leading 18th-century painter of these scenes, Luis Egidio Meléndez used a low vantage point and placed the objects very close to the viewer. For 10 points each:

[10] Name this type of still life depicting the contents of pantries and kitchens, such as Juan Sánchez Cotán's *Quince, Cabbage, Melon, and Cucumber*.

ANSWER: **bodegones**

[10] This Spanish artist made his early mark with *bodegones* such as *The Water Carrier of Seville*. He is better known for painting the retinue of the Infanta Margarita in *Las Meninas*.

ANSWER: Diego **Velázquez** [or Diego Rodríguez de Silva y **Velázquez**]

[10] Perhaps the most famous individual *bodegón* depicts a boy holding a melon next to a working-class old woman performing this culinary action.

ANSWER: **frying eggs** [or word forms; or **cooking eggs**; prompt on partial answers] <Gupta>

14. In this novel's fourth section, the main characters reunite for a night of partying in Mexico City, only for the narrator to become gravely ill with dysentery. For 10 points each:

[10] Name this novel narrated by Sal Paradise and written by Jack Kerouac.

ANSWER: **On the Road**

[10] The character of Dean Moriarty in *On the Road* is based on this friend of Kerouac, who drove the bus *Further* for the first leg of the trip made by the Merry Pranksters.

ANSWER: Neal **Cassady**

[10] Cassady's other influences on Kerouac include helping him develop this type of prose, in which a mental image of a topic is described in tones that follow the writer's breathing patterns.

ANSWER: **spontaneous** prose <Droge>

15. This composer was inspired by folk music to write pieces such as the *Dumky Trio* and the *American String Quartet*. For 10 points each:

[10] Name this composer whose *Cello Concerto in B minor* was premiered in 1895 by Leo Stern.

ANSWER: Antonín **Dvořák** [or Antonín Leopold **Dvořák**]

[10] Inspired by Native American and African-American musical traditions, this Dvořák symphony introduces the main theme of its Largo second movement with a solo for the English horn.

ANSWER: **New World** Symphony [or *Symphony from the New World*; or *Symphony No. 9*]

[10] Describe the rhythm of the first three notes of that English horn solo in terms of "LONG" and "short" notes. For example, the words "Let it be" follow a "short, short, LONG" rhythm in the Beatles song.

ANSWER: **LONG short LONG** <Kim>

16. This book argues that Max Weber's thesis of societies tending to bureaucracy has manifested itself with the prevalence of rationalization. For 10 points each:

[10] Name this book by George Ritzer that coined a term for a process that is numbing, efficient, and predictable.

ANSWER: *The **McDonalidization of Society***

[10] For McDonald's, people trying to participate in this system go to Hamburger University.

Economically, this system causes less deadweight loss than a pure monopoly because two parties are trying to extract the most producer surplus.

ANSWER: **franchising** [or word forms such as **franchise** or **franchisee**]

[10] *The Economist* publishes an index displaying purchasing power parity of currencies that is named after this flagship McDonald's product.

ANSWER: **Big Mac** [or **Big Mac** Index] <Droge>

17. This being presumably disguises himself as as an old giantess who refuses to weep for Balder. For 10 points each:

[10] What fiendish Norse god is responsible for Balder's death and is the father of such beings as Hel and the Midgard Serpent?

ANSWER: **Loki** [or **Loptr**; or **Hveorungr**]

[10] Loki angers the other gods so much that is eventually bound over several stones. Legendarily, earthquakes take place because this keeps happening to the trapped Loki despite his wife's best efforts.

ANSWER: a snake's **venom drops on him** [or **poison drops on him**]

[10] According to some stories, Loki was bound over the stones in this manner after the gods turned Loki's son Vali into a wolf. The bonds became iron, but were originally fashioned in this manner.

ANSWER: with the **entrails** of Loki's other son [or the **entrails** of Narfi; or the **entrails** of Nari; or obvious equivalents of "entrails", such as **guts**, **organs**, or **intestines**; prompt on **body parts**] <Cheyne>

18. The main force of Dmitry Shuisky did not participate in this battle that effectively ended the De la Gardie Campaign. For 10 points each,

[10] Name this battle, that, along with a victory at the siege of Smolensk, led to the Polish occupation of Moscow and the installation of Władysław (vwah-dih-SWAHF) IV as tsar of Russia.

ANSWER: Battle of **Klushino** [or Battle of **Kłuszyn**]

[10] The Polish invasion of Moscow was a low point for the Russians during this period in which several "False Dmitris" claimed power. It was ended by the rise of the Romanov Dynasty.

ANSWER: **Time of Troubles**

[10] The Time of Troubles began with the death of Fyodor I, the last monarch of this earlier Russian dynasty.

ANSWER: **Rurik** dynasty [or **Rurikids**] <Droge>

19. Answer some questions about the logic of organic synthesis. For 10 points each:

[10] This chemist coined the term "retrosynthesis" to describe the disconnection of complex products into idealized synthetic equivalents, or "synthons". With Fuchs, this chemist names a method for converting aldehydes to alkynes.

ANSWER: Elias James **Corey**

[10] This German term describes the modification of a chemical group to reverse its polarity. The formation of a dithiane from a carbonyl and subsequent deprotonation is a common example of this type of modification.

ANSWER: **Umpolung**

[10] The classic example of an Umpolung reaction is the condensation of two equivalents of benzaldehyde into benzoin using this anion as a catalyst. This highly toxic anion has formula CN minus.

ANSWER: **cyanide** <MacAulay>

20. This poem was written to honor the actions of Leander Starr Jameson. For 10 points each:

[10] Name this poem which tells its addressee to "keep your head when all about you are losing theirs and blaming it on you". The ending of this poem notes that the person who displays all the aforementioned accomplishments will "be a man, my son".

ANSWER: "**If—**"

[10] "If—" was written by this British author, who also wrote about the "man-cub" Mowgli in *The Jungle Book*.

ANSWER: Rudyard **Kipling** [or Joseph Rudyard **Kipling**]

[10] A 1919 poem by Kipling talks about the "gods" of these things, which were basically proverbs students were required to write down. The gods of these things, according to the poem, claim "the wages of sin is death" and "if you don't work you die".

ANSWER: the **Copybook Headings** [or "The Gods of the **Copybook Headings**"] <Cheyne>

21. While at the high place of Pisgah, this man makes prophecies blessing Israel, much to Balak's anger. For 10 points each:

[10] What prophet was brought in by the king of Moab to curse the Israelites? While riding to meet Balak, his donkey is given the power to speak and complains about this man's treatment.

ANSWER: **Balaam**

[10] Balaam's story is mostly recorded in this Old Testament book, which follows Leviticus, and, as its name suggests, contains a lot of census information.

ANSWER: Book of **Numbers** [or **Arithmoi**; or **B'midbar**]

[10] The Book of Revelation condemns this city in modern day Turkey for following Balaam's teachings and choosing sexual sins. Part of the seven churches of Asia, this city was where Antipas was martyred and Galen worked in its Asclepium.

ANSWER: **Pergamon** [or **Pergamum**] <Cheyne>