**Bulldog High School Academic Tournament XXII (2013): *Praxis*? We Talkin' Bout *Praxis*, Man**

**By Yale Student Academic Competitions**

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**Round Eight Tossups**

1. These creatures’ males extend the dulla, a pink sack in their throats, from their mouths during mating season. They are the only mammals whose nucleated, oval-shaped red blood cells can divide. Aisha lost a 656 battle, named for fighting around one of these creatures near Basra, to the caliph Ali. They can spit caustic chemicals from their first stomach at will. By order of War Secretary Jefferson Davis, an antebellum corps brought these non-horse animals to the american Southwest for cavalry. These ungulates are raised by Tuareg nomads. For 10 points, name this animal whose milk feeds the Bedouin and whose hairier Bactrian variety has two visible fat stores in its humps.

ANSWER: **camel**s [or **dromedary** camels; accept ***Camel****us dromedarius*] <MJ>

2. In a James Gillray cartoon, leaders of these *two* countries cut the globe like a steak. One of them occupied Malta to violate the Peace of Amiens between these nations, which lasted one year. In 1797, Irishman Wolfe Tone asked one of these countries for a failed invasion of the other. The Continental System isolated one of these countries at the other’s behest. These empires fought at Aboukir Bay in the Nile. The more northern of this pair gathered the Third Coalition and led the winning army of the Hundred Days after the other’s leader returned from exile on Elba. For 10 points, name these empires that fought at Trafalgar and Waterloo while led by George III and Napoleon.

ANSWER: Great **Britain** AND **France** [accept **England**, **United Kingdom** of Great Britain and Ireland, or **UK** in place of “Britain”; accept **French** Republic, **French** [First]Empire**,** République **francaise**, Empire **francaise**, or **Napoleonic** Empire in place of France] <MJ>

3. This effect is responsible for the enol tautomer being favored over the keto tautomer in less-polar solvents. The strongest form of it appears in the bifluoride ion. It occurs thrice in G-C base pairs but twice in A-T base pairs, and it connects every carbonyl in an alpha helix to an amino four residues away. The relatively-low boiling point of H2S relative to water is a result of this interaction, which is intermediate in strength between covalent bonds and van der Waals interactions. In general, for this to occur, fluorine, nitrogen, or oxygen must act as an electron acceptor. For 10 points, identify this type of dipole-dipole interaction between certain electronegative atoms and the lightest element.

ANSWER: **hydrogen bond**ing <JG>

4. This state lost the Oblong and the Congamond Notch in territorial disputes. The first nuclear submarine, the *U.S.S. Nautilus*, is now a museum in its town of Groton. The peak Sleeping Giant overlooks a polling center at this state’s Quinnipiac University in Hamden. Its namesake river passes Windsor Locks on its way to Old Saybrook. The Mohegan Sun casino is close to its towns of Mystic and New London, and its wealthy cities of Greenwich and Stamford are in Fairfield County. A debated high speed train proposal bypasses its cities of Bridgeport and New Haven. For 10 points, name this “Nutmeg State” north of Long Island Sound, with capital at Hartford.

ANSWER State of **Connecticut** <JW>

5. Cas A was produced by one of these events, and has been dated using light echoes. One process in them causes reactions that occur along the neutron drip line; that process is called “rapid” or “r”. Perimutter et al received the 2011 Nobel Prize for the use of these events in distant galaxies as standard candles to show that the universe is expanding. In 1054 AD, one of them produced the Crab Nebula. One type of them, referred to as “one-A”, can occur after a white dwarf accretes to a mass greater than 1.4 solar masses, known as the Chandrasekhar limit. For 10 points, almost all heavier-than-iron metals in the universe originate in what extremely-energetic stellar events?

ANSWER: **supernova**e [do not prompt on or accept “nova”] <BH>

6. Two men who tried to meld this man’s thought with Marx were Erich Fromm and Herbert Marcuse of the Frankfurt school. He described a child’s pre-religious limitless feeling as the “oceanic feeling,” and inspired writings about “displacement,” “reaction formation,” and other defense mechanisms by his daughter. This author of *Civilization and its Discontents* related a primitive ban on incest to neurosis in *Totem and Taboo*. He believed a boy’s unconscious had to repress hate for the father to develop a “super-ego” atop the ego and id. For 10 points, name this man who proposed mother-love via the Oedipus complex, an Austrian whose patients got the first psychoanalysis.

ANSWER: Sigmund Schlomo **Freud** (“FROYT”) <MJ>

7. A sacred text in this language compares its title concept to a bellows blowing air in the fourth section of Stephen Mitchell’s translation. Another writer used it to describe a child falling down a well to exemplify “Four Sprouts” or “Four Beginnings.” A sacred book in this language includes six types of hexagram in a lookup table used after flipping three coins. A scholar in this language was unsure if he dreamed of being a butterfly or vice-versa. Mencius built on a text in this language which stresses “five relationships” and filial piety, called the *Analects*. For 10 points, name this language used by the divinatory *Book of Changes,* the earliest Daoists, and Confucius.

ANSWER: Classical **Chinese** [or Literary **Chinese**; or **Zhongwen**; or ***gǔ wén***; or **wényán ren**] <MJ>

8. One tragedy written in this language depicts a nobleman’s struggle against the Duke of Alba, and a play in this language features Amalia convincing her lover to kill her before he turns himself in. *Egmont* was penned in this langauge which the Moor brothers use to feud onstage*.*  A work of “epic theater” written in this language includes Swiss Cheese, Eilif, and Kattrin, who follow their mother’s merchant cart in wartime.  *The Robbers* and *Mother Courage and Her Children* were penned in, for 10 points, what language used by Brecht and Schiller, in which Goethe wrote *Faust*?

ANSWER: **German** language [or **Deutsch**] <SJW>

9. In two films of this genre, Joseph Egger plays an old coffin builder. A protagonist in three of these films crafts a steel plate to wear under his clothing and watches the Baxter estate catch fire. American examples include a John Sturges film where Yul Brynner’s character recruits *The Magnificent Seven*, and other characters from this genre include Angel-Eyes and Blondie. Italian directors such as Sergio Leone filmed *A Fistful of Dollars* among this genre’s low-budget “spaghetti” examples. For 10 points, name this genre including *The Good, the Bad, and the Ugly,* whose films were often set in Mexico and featured cowboys.

ANSWER: **Western** films [or **western**s; or **Wild West** films; or **cowboy** films until “cowboys” is read; accept **spaghetti western**s until “American” is read] <MJ>

10. The book’s protagonist is trained in rhetoric by Hambro, sleeps with Sibyl, and gets in trouble for taking a man to the Golden Day saloon and allowing him to meet Trueblood. Its title character is injured in a paint factory explosion after being expelled by Dr. Bledsoe, and is enraged by the death of Todd Clifton, a member of the Brotherhood. This novel closes with a riot involving Ras the Exhorter in Harlem, and opens with the title character, who lives in a basement illuminated by over a thousand light bulbs, forced into a “battle royal” with other blacks. For 10 points, name this *magnum opus* of Ralph Ellison, whose namesake character is unperceived due to his race.

ANSWER: ***Invisible Man*** [do not accept “*The Invisible Man*”] <SJW>

11. One ruler of these people forbid the consumption of milk for a year after the death of his mother, and has a name meaning “beetle” due to rumors that his mother had a parasite in her belly. That ruler conquered the land between the Tugela and Pogola rivers, and preferred the *iklwa* spear to the *assegai*. Another of their learders, Dingane, was crushed at the Battle of Blood River, and they faced the forces of Lord Chelmsford at the Battle of Ulundi, where the British avenged an earlier loss to this group at Isandlwana. These opponents of the Boers used roughly football-shaped leather shields. For 10 points, name this South African ethnic group once led by Shaka.

ANSWER: the ama**Zulu** [or **Zulu** Empire] <GL>

12. A form of this quantity described by the word “brightness” is used to approximate a grey body by a black body. A particular wavelength is related to this quantity by Wien’s displacement law. This variable is inversely proportional to thermodynamic beta. It is formally defined as the derivative of internal energy with respect to entropy. An equivalence relation involving it is established by the zeroth law of thermodynamics. The efficiency of the Carnot cycle is a function of this property of the reservoirs. Specific heat is the energy required to cause a given amount of change in this quantity. For 10 points, name this property of a material that can be measured in kelvins.

ANSWER: **temperature**<AS>

13. On *The* *Simpsons*, this person’s first book title is parodied by Constance Harm’s saying “Don't spit on my cupcake and tell me it's frosting!” She has a genial relationship with the taciturn Petri Byrd, who often supplies non-verbal facial expressions. Her husband briefly hosted a rival show, but he was replaced by Marilyn Milian. This author of *Beauty Fades, Dumb is Forever* was the subject of the *LA Times* article “Law and Disorder.” Viewers of her show are informed that “The people are real. The cases are real. The rulings are final.” For 10 points, name this “no-nonsense” TV personality who is paid $45 million a year for a daytime show set in her courtroom.

ANSWER: **Judge Judy** Sheindlin [or the Honorable Judy **Sheindlin**] <IP>

14. In the Gila monster, this substance contains exendin-4, from which the diabetes drug exenatide was derived. The parotid glands secrete this substance which, when secreted, contains inactive lipases that are bile-salt-independent. Many mammals remove the amniotic sac from newborn infants via the vigorous application of this substance. The sublingual glands also secrete it, and it contains an enzyme that hydrolyzes starch, alpha-amylase. This liquid was involuntarily produced by dogs in Pavlov’s conditioning experiments. For 10 points, name this substance that begins the process of digestion, a watery liquid secreted in the mouth.

ANSWER: **saliva** [prompt on “spit” or other colloquialisms] <AS>

15. This city’s police shot black resident Henry Glover during a lawless period in its Algiers Point neighborhood. The nickname “Beast” was applied to Benjamin Butler due to his occupation of this city, which was once defended with aid from Barataria bay pirate Jean Lafitte. This largest city transferred by the 1800 Treaty of San Ildefonso was opened to US use by Pinckney’s treaty. This hometown of Ruby Bridges was attacked two months after the Treaty of Ghent ended the war of 1812, and Michael Brown resigned due to a failed FEMA operation here. For 10 points, name this formerly-French city on the Mississippi delta whose levees broke during Hurricane Katrina.

ANSWER: **New Orleans**, Louisiana <MJ>

16. Lake Nemi is sacred to this deity, who saved Arethusa by turning Alpheus into a spring and ran between the Aloadae, Otus and Ephialtes, to make them hit each other and save Olympus. One follower of this deity bore Arcas. At Aulis, this deity whisked off Iphigenia instead of taking her as a sacrifice from Agamemnon. The Calydonian boar was sent by this goddess who killed the daughters of Niobe. Actaeon was turned into a stag and eaten by his dogs for stumbling on her bathing, and she turned her follower Callisto into a bear for failing to stay a virgin like herself. For 10 points, name this twin of Apollo, a huntress goddess identified with the moon.

ANSWER: **Artemis** [or **Diana**] <MJ>

17. A poem from this country features the colossus Adamastor and a hero who finds solace with Tethys on the Island of Love. One author from this country adopted the pseudonym Bernardo Soares in his *Book of Disquietude* and inspired the novel *The Year of the Death of Ricardo Reis.* Fernando Pessoa was from this country, where another novelist started one book at a traffic intersection. Besides writing about Jesus’ personal account of his life, that author from this country created the Doctor’s Wife, who helps nameless people cope in *Blindness*. For 10 points, name this home country of Jose Saramago, a European nation whose national epic stars Vasco da Gama.

ANSWER: **Portugal** [or **República Portuguesa**; or **Portuguese Republic**] <GL>

18. This leader granted women the emancipated *ius liberorum* status for bearing three or more children. He included his early victory at Mutina in an account of his life put on bronze pillars and the Ancyra monument, called *Res Gestae*. This ruler put up a large sundial and the Altar of Peace while remodeling the Forum. This husband of Livia Drusilla mourned three legions who fell at Teutoburg Forest in Germania. With Agrippa’s help, this founder of the Praetorian Guard and predecessor of Tiberius gained sole control with a naval victory at Actium. For 10 points, name this adoptive son of Julius Caesar who renamed himself in 27 BC , the first Roman emperor.

ANSWER: Gaius Julius Caesar **Augustus** [or Gaius **Octavius**; or Gaius Julius Caesar **Octavian**us] <MJ>

19. One character in this work has a flight blocked by a shapeless black being carrying a “fatal dart” and a woman who sprang from his head, with whom he committed incest. This poem’s author is inspired by a “Heavenly Muse” that “dove-like sat’st brooding” in four invocations, and its opening includes a debate in which Belial and Mammon speak in Pandaemonium. A couple “hand in hand” take their “solitary way” at the end of this twelve-book poem, in which Raphael and Michael speak in part to “justify the ways of God to men”. For 10 points, name this epic about the fall of Satan, Adam, and Eve, by John Milton.

ANSWER: ***Paradise Lost*** <SJW>

20. Edgard Varèse wrote a work for this instrument titled after a physical property of platinum, *Density 21.5*. This instrument often features a “gizmo key” that makes playing a high C easier, and one of these made of solid gold was owned by Jean-Pierre Rampal. Mozart wrote a concerto for this instrument and harp. The smaller relative of this instrument has a famous solo in the trio of “Stars and Stripes Forever.” It appears in the title of an opera in which Tamino must rescue Pamina from the Queen of the Night. That Mozart opera features a “magic” one. For 10 points, name this instrument played by blowing a stream of air over a hole, the larger relative of the piccolo.

ANSWER: transverse **flute** <KK>

**[STOP HERE]**

[You have reached the end of the round. Do not continue reading unless the game is tied or a tossup was thrown out earlier in the round.]

21. This man founded the Phoenix settlement and Tolstoy Farm. He announced one illegal act with an open letter to Lord Irwin, and his philosophy established a hierarchy in which non-cooperation is better than civil disobedience, which is better than passive resistance. This man spent his youth as a lawyer in South Africa. His ideology literally means “the way of truth,” and he argued for an economy based on homespun cotton cloth. This leader of the Salt March gained a nickname meaning “Great Soul” while opposing the British. For 10 points, name this proponent of *satyagraha,* a nonviolent ascetic advocate of Indian independence.

ANSWER: Mohandas Karamchand “Mahatma” **Gandhi** <MJ>

Bonuses

1. The housekeeper Mrs. Pearce is wary of this play’s central scheme. For 10 points each:

[10] Name this play, in which the language professor Henry Higgins makes a bet with Colonel Pickering that he can train the young flower-seller Eliza Doolittle to be a proper lady.

ANSWER: ***Pygmalion***

[10] This Irish playwright of *Pygmalion* wrote of Raina’s love for Captain Bluntschli in *Arms and the Man* and of Andrew Undershaft’s donation to the Salvation Army in *Major Barbara*.

ANSWER: George Bernard **Shaw**

[10] In the epilogue to this later Shaw play, King Charles sees a vision of three men bowing before the title liberator after a man from the 1920’s reports on her lasting fame.

ANSWER: ***Saint Joan*** <JW>

2. The protagonist of this story mourns the death of Beatriz Viterbo, and meets her cousin, the poet Carlos Argentino Daneri. For 10 points each:

[10] Name this short story, whose title location is a point from which one can see everything in existence from every possible point of view.

ANSWER: “The **Aleph**” [or “El **Aleph**”]

[10] “The Aleph” and “The Library of Babel” are among the many paradoxical short stories of this Argentine author, whose anthology *The Garden of Forking Paths* was expanded into *Ficciones.*

ANSWER: Jorge Francisco Isidoro Luis **Borges**

[10] In this other Borges short story, a conspiracy including Borges’s friend Adolfo Bioy Casares maintains a fictional world, including a language devoid of nouns.

ANSWER: “**Tlon, Uqbar, Orbis Tertius**”<SJW>

3. Answer the following questions about Jewish religious law, for 10 points each.

[10] This term refers to the 613 commandments given by God in the Torah which mature Jews must obey at thirteen years of age. In recent times, this Hebrew word refers more generally to good deeds.

ANSWER: **mitzvot**h [or **mitzvah**, the singular form]

[10] Because this building in Jerusalem no longer exists, about half the mitzvot are unobservable and thereby not required. It contained a “holy of holies” until all but its Western Wall was destroyed in 70 CE.

ANSWER: the **Temple** [or the Second **Temple**; or **Beit ha-Mikdash**]

[10] On top of the Mitzvot, observant Jews adhere to this collection of rabbinic laws and debates, which is further divided into the Mishna and Gemara.

ANSWER: **Talmud** <MJ>

4. The *Kojiki* is the oldest extant chronicle and collection of myths from this modern-day country. For 10 points each:

[10] Name this home country of Shinto, whose emperor renounced imperial descent from the sun goddess Amaterasu after losing World War II.

ANSWER: **Japan** [or **Nihon**; or **Nippon**]

[10] This is the Japanese word for divinities or spirits. Many Shinto adherents believe that each natural feature has one of these connected to it.

ANSWER: **kami**

[10] These animals serve as messengers for the agriculture *kami* Inari, and statues of them at Inari’s shrines are often confused for Inari. In folklore, they gain more tails as they get wiser.

ANSWER: **fox**es [or **kitsune**] <AT>

5. He modified the planned Greek Cross of one building to create a new design whose construction was overseen by Giacomo della Porta. For 10 points each:

[10] Name this designer of the Laurentian Library, who incorporated existing buildings into a trapezoidal piazza on the Capitoline hill.

ANSWER: **Michelangelo** [or Michelangelo di Lodovico **Buonarroti** Simon]

[10] Michelangelo modified Donato Bramante’s designs for this large church located in Vatican City. In times when there’s a Pope, the Pope presides over some services here.

ANSWER: **Saint Peter’s** Basilica [or Basilica of **Saint Peter**; or Basilica **Sancti Petri**; or Basilica Papale di **San Pietro** in Vaticano]

[10] Michaelangelo’s Medici Chapel lies in this architect’s Florentine Basilica of San Lorenzo. He also built the dome of Florence’s Duomo cathedral, and lost a contest to design some baptistery doors to Ghiberti.

ANSWER: Filippo **Brunelleschi** <BS>

6. The holder of this position was served by local landlords called *daimyo*. For 10 points each:

[10] Name these executives which ruled from Kyoto during the Ashikaga era. Tokugawa Ieyasu was one of these warlords, who often held real power instead of the emperor.

ANSWER: **shogun**

[10] Tokugawa is called the last of Japan’s three “great unifiers.” Name *either* of the previous two, who fought Tokugawa and each other towards the end of Japan’s Warring States period.

ANSWER: **Oda** Nobunaga OR **Toyotomi** Hideyoshi [accept **Hideyoshi** alone, but do not accept “Nobunaga” alone]

[10] The title of shogun emerged after this city was abandoned as capital in 784. The mytho-history *Nihon Shoki* was compiled during the namesake period of this city, home to the Todai-ji shrine.

ANSWER: **Nara**-shi [or **Heijo-kyo**] <MJ>

7. This quantity is equal to the change in an object’s kinetic energy. For 10 points each:

[10] Name this quantity, which is also equal to the product of force and displacement when they are parallel.

ANSWER: (mechanical) **work**

[10] Suppose you have two objects of mass 1 kilogram, travelling towards one another at 1 meter per second. If the particles undergo a head-on elastic collision, how much net work has been done?

ANSWER: **0** joules [or **none**; or **nil**; or **nada**; or **zilch**; or **zip**; or **naught**; or **diddly-squat**; or obvious equivalents]

[10] In elastic Rutherford scattering, the particles never actually collide. Hence, this parameter, which measures the minimum perpendicular distance between the particles, is used to describe the interaction. It is often denoted *b*.

ANSWER: **impact** parameter <AS>

8. In this author’s novel *The Ghost Writer*, author Nathan Zuckerman meets a woman he believes to be Anne Frank. For 10 points each:

[10] Name this American author of *The Human Stain* who wrote one novel as a psychoanalytic session set in Dr. Spielvogel’s office, *Portnoy’s Complaint*. He retired in 2012.

ANSWER: Philip Milton **Roth**

[10] Portnoy is described as a “lust-ridden mother-addicted” bachelor of this religion. Roth’s novel *The Plot Against America* imagines how president Charles Lindbergh persecutes this faith after Hitler wins World War II.

ANSWER: **Judaism** [or **Jews**; or **Yehudim**; do not accept impolite epithets]

[10] Roth’s mentor and fellow American Jew, Saul Bellow, wrote this novel about a professor who writes a ton of letters while trying to rescue his daughter from his ex-wife Madeleine.

ANSWER: ***Herzog*** <SJW>

9. Her partner, Tim Mathieson, has earned the nickname “First Bloke,” and she accused opposition leader Tony Abbott of being a “misogynist” in October 2012. For 10 points each:

[10] Name this politician, who defeated Kevin Rudd in 2010 to take over leadership of her country’s Labor Party. She lives in The Lodge in Canberra.

ANSWER: Julia Eileen **Gillard**

[10] Gillard serves as Prime Minister of this country and represents Lalor, a division near Melbourne in its state of Victoria.

ANSWER: Commonwealth of **Australia**

[10] This other female world leader, who leads the Saenuri party, was elected South Korea’s first female president in December 2012. Her father was a military president from 1963 to ‘79.

ANSWER: **Park** **G**eun-hye <JW>

10. A now-falsified theory about these reactions held that they occurred due to the presence of phlogiston. For 10 points each:

[10] Name this type of exothermic reaction which, when “complete”, yields carbon dioxide and water vapor as products.

ANSWER: **combustion** reaction [prompt on “burning” or other colloquial equivalents]

[10] Combustion often involves the reaction of an organic compound with the diatomic, gaseous form of this element. This element lends its name to the process of removing electrons from a substance, the inverse of reduction.

ANSWER: **oxygen** [or **O**]

[10] Though it’s unclear who actually discovered oxygen, one contender is this French scientist who was the first to verify that mass was conserved. He helped Priestley prove that phlogiston didn’t exist before he was guillotined.

ANSWER: Antoine-Laurent de **Lavoisier** <JG/AS>

11. This man claimed that primary substances undergo changes when a potentiality within them becomes actualized in his *Physics,* and believed that all objects were designed according to an end goal called a *telos*. For 10 points each:

[10] Name this Greek philosopher, a tutor of Alexander the Great who was himself a pupil of Plato.

ANSWER: **Aristotle** of Stagira [or **Aristoteles**]

[10] After leaving Plato’s Academy, Aristotle taught at this school, where his Peripatetic followers gathered. His surviving texts are thought to be summaries of lectures given here.

ANSWER: **Lyceum** [or **Lykeion**]

[10] Name ANY of the three modes of persuasion Aristotle named in his *Rhetoric.* The first appeals to the audience’s emotions, the second to personal character, and the third to relevant rational claims in one’s speech.

ANSWER: **pathos** OR **ethos** OR **logos** <MJ>

12. For 10 points each, name these ships from early American history.

[10] This ship ran aground near Plymouth Rock in 1620, forcing its Pilgrim denizens to draw up a namesake “compact”.

ANSWER: ***Mayflower***

[10] This ship blockaded Charleston harbor in May 1718 under the command of pirate Edward Teach, also called Blackbeard.

ANSWER: ***Queen Anne’s Revenge***

[10] After it ran aground near Tripoli, this American ship was burned by Stephen Decatur, who preferred its destruction to the Barbary states getting their hands on it.

ANSWER: *USS* ***Philadelphia*** <MJ>

13. In one work by this man Josef K attempts to understand some mysterious legal proceedings. For 10 points each:

[10] Name this author of such bizarre books as *The Trial*. He wrote about Gregor Samsa, who awakes to discover that he has become a giant insect, in *The Metamorphosis.*

ANSWER: Franz **Kafka**

[10] In this short story, Kafka describes a fiendish method of execution that inscribes “Be Just” with needles on the condemned person’s body.

ANSWER: “**In the Penal Colony**” [or “**In der Strafkolonie**” or “**In the Penal Settlement**”]

[10] This novel, left unfinished at Kafka’s death, follows the travels of Karl Rossmann in the title country. In the first chapter of this novel, a statue holding a sword is visible from a ship.

ANSWER: ***Amerika*** [or *The* ***Man Who Disappeared***, or *Der* ***Verschollene***] <SJW>

14. During this war, Frederick V briefly became King of Bohemia, only to be dethroned by the Habsburgs with the decisive Battle of White Mountain. For 10 points each,

[10] Name this long-running war between Catholics and Protestants. It began with the Defenestration of Prague in 1618 and ended with the Peace of Westphalia in 1648.

ANSWER: **Thirty Years’ War**

[10] This “Lion of the North” launched an invasion of central Europe from his Protestant kingdom of Sweden during the Thirty Years’ War. He died in battle against Wallenstein in 1632.

ANSWER: **Gustavus Adolphus** the Great [or **Gustav II** Adolf den Store; or **Gustav** II **Adolf** den Store]

[10] This general on the Catholic side was this man presided over the alleged Sack of Magdeburg. He lost the Battle of Breitenfeld, and died after being wounded by a cannon ball at the Lech River.

ANSWER: Johann **Tserclaes**, Count of **Tilly** [accept either] <SJW>

15. Some bacteria with this trait have evolved beta-lactamases. For 10 points each:

[10] Name this property of certain modern bacteria, which may also be the result of the presence of more efflux pumps than usual. It arises due to a certain type of evolutionary pressure.

ANSWER: **antibiotic resistance** [or word forms; accept (multi)-**drug resistance**; prompt on “superbug”]

[10] Once antibiotic resistance has evolved, it may spread to other bacteria via this broad class of gene transfer mechanisms. Conjugation and transformation are examples of it, as is phage-mediated transduction.

ANSWER: **horizontal** gene transfer

[10] Some members of the *aureus* species in this genus of spheroidal bacteria are noted for their resistance to methicillin. Species in this genus can be distinguished by the coagulase test, and commonly cause food poisoning.

ANSWER: **Staphylococcus** [prompt on “Staph”] <AS>

16. Sometimes music is really really really really really really really really really repetitive. For 10 points each:

[10] This piece by Maurice Ravel features an unchanging snare drum rhythm and two melodies that are played successively by various instruments of the orchestra. Ravel described it as “orchestral tissue without music.”

ANSWER: ***Boléro***

[10] This other French composer wrote a piece whose instructions may indicate that the melody should be played 840 times, *Vexations*. He also wrote three *Gymnopédies* and *Three Pieces in the Form of a Pear*.

ANSWER: Erik **Satie**

[10] This American minimalist describes his work as “music with repetitive structures.” He wrote the soundtracks to *Koyaanisqatsi* and *The Hours*, as well as the opera *Einstein on the Beach*.

ANSWER: Philip **Glass** <KK>

17. Name these explorers that sailed for the British crown, for 10 points each.

[10] Elizabeth I financed this man, a buccaneer who circumnavigated the globe aboard the Golden Hind and helped take down the Spanish Armada.

ANSWER: Sir Francis **Drake**

[10] This man’s attempts to find the Northwest Passage for James I ended when his crew mutinied and cast him out on a lifeboat in waters now controlled by Canada.

ANSWER: Henry **Hudson**

[10] Two Venetians of this surname, a father and son, led expeditions from Bristol under the banner of Henry VII. The elder one thought he’d reach America faster at more northerly latitudes.

ANSWER: **Cabot** [or John and Sebastian **Cabot**; or Giovanni e Sebastiano **Cabot**to] <MJ>

18. This genre includes at least one work by Dutch female painter Judith Leyster, whose discovery in 2009 disproved the idea that she gave up painting after marriage. For 10 points each:

[10] Name this type of painting of motionless objects such as fruit shown up close in the absence of people. Van Gogh’s often showed vases with sunflowers.

ANSWER: **still-life**s [or **still life** paintings]

[10] This French post-Impressionist did several still lifes of apples in addition to his paintings of Mont Sainte-Victoire and *The Bathers.*

ANSWER: Paul **Cézanne**

[10] This American was inspired by the still life genre to paint more abstracted close-ups of animal skulls and suggestive flower petals while living in New Mexico.

ANSWER: Georgia Totto **O’Keeffe** <MJ>

19. Answer the following questions about National Hockey League trophies, for 10 points each.

[10] What trophy, named for a former Governor-General of Canada, is the championship trophy awarded to the team that wins the NHL championship?

ANSWER: **Stanley** Cup

[10] The Hart Trophy, awarded to the NHL MVP during the regular season, was won for the 2011-2012 season by Evgeni Malkin, a player for what team, whose other stars included Sidney Crosby?

ANSWER: **Pittsburgh Penguins** [accept either]

[10] What NHL trophy is awarded to players who exhibit the best sportsmanship and is named after the wife of a Canadian war hero?

ANSWER: **Lady Byng** Memorial Trophy <Mike Cheyne>

20. In the early days of programming, this statement was held in high esteem. For 10 points each:

[10] Name this now-disfavored programming statement which causes program execution to jump to another label. Disgustingly, PHP *started* supporting this statement just a few years ago.

ANSWER: **go to**

[10] This programming paradigm, which originated in the 1960s, eschews goto statements in favor of loops and subroutines. It shares a name with a query language often used to interact with relational databases.

ANSWER: **structured** programming [or **structured** query language; prompt on “SQL” (pronounced “sequel”)]

[10] This opinionated computer scientist wrote the letter “Go To Statement Considered Harmful”. He also thought that “BASIC… mutilates the mind”. He lends his name to a greedy graph search algorithm.

ANSWER: Edsger (Wybe) **Dijkstra** <JG>

21. Answer these questions about British novels of a spooky or horrifying nature, for 10 points each.

[10] Lucy Westenra gets bitten by the title vampire of this Bram Stoker novel, in which Jonathan Harker’s friends use cutting-edge tech like the phonograph in their quest to slay him.

ANSWER: ***Dracula***

[10] This English author of *Persuasion* parodied the Gothic literature craze in her novel *Northanger Abbey* and wrote about the awful womanizer Willoughby in *Sense and Sensibility.*

ANSWER: Jane **Austen**

[10] This Horace Walpole novel was the first example of Gothic literature. Manfred is the lord of this book’s title location.

ANSWER: *The* ***Castle of Otranto*** <MJ>