

VCU Closed

February 2, 2013

Packet by Georgia Tech (Will Butler, Adam Silverman) and Williams (Alex Kling, Dylan Gilbert, Sam Donow, Laura Berman, Tarun Narasimhan)

1. One residue of this amino acid in the eukaryotic elongation factor 2 is modified to form diphthamide, so named because diphtheria attaches ADP-ribose to that special residue. Bacterial two component signal transduction systems primarily auto-phosphorylate this amino acid on the sensor-kinase protein. The catalytic triad of serine proteases consists of serine, aspartic acid, and this amino acid. One of the most common type of (*) zinc finger motifs are defined by having two conserved cysteines and two copies of this amino acid. The side chain of this amino acid has a pKa of about 6. For 10 points, name this amino acid with a imidazole side chain and whose single letter code is H.

ANSWER: histidine [prompt on H; prompt on His]

2. A plot of land along this river was to be the site of the John Papworth and William Bullock proposed utopian city of Hygeia. Ships traveling this river can bypass its falls through the McAlpine Locks and Dam complex. The climactic battle of Lord Dunmore's war occurred near where a tributary of this river joins it and that site of confluence, Point Pleasant, is the home of the (*) Mothman. Wheeling Island in this river is home to a casino. Owensboro is located along this river. Its major tributaries include the Cumberland and Wabash rivers. This river is formed from the Monongahela and Allegheny at Pittsburgh. For 10 points, name this river that joins the Mississippi at Cairo, Illinois and forms the between Kentucky and same named state.

ANSWER: Ohio River

3. The narrator of this book contrasts his narrow possibilities with the open future of Clarence King, who is encountered on a geological survey of Estes Park. After visiting the Chicago World's Fair, the narrator observes that all Americans are unified behind the idea of force. This book notes that the eighteenth century really ended with the death of the author's grandfather. It describes difficulties in finding a publisher for an article exposing Jay Gould and laments (*) learning Latin and Greek instead of French and German. In this book's twenty-fifth chapter, the author discovers that history is defined by forces acting on people in "The Dynamo and the Virgin." For 10 points, name this autobiography about the decreased role of intellectuals in the coming twentieth century, written by a descendant of two Presidents.

ANSWER: *The Education of Henry Adams*

4. This man ordered the death of the intelligence agent Sebastian Parnell after failing to capture a rival at Tol Ado. In a fit of paranoia, this man threw his blindly loyal disciple Laurita Tohm off a tall building following the suppression of the Gentis coup. Shortly after winning a war, this man was enraged to learn that several people he had captured in battle were sent to the so-called "ghost prison." He once travelled to Mimban in order to recover the (*) Kaiburr Crystal, a few years before taking command of the flagship *Executor*. This man engineered a plan to locate Yavin IV using a tracking device and executed Admiral Ozzel for coming out of hyperspace too close to Hoth. For 10 points, name this "chosen one" who "brings balance to the Force" by killing Emperor Palpatine, two decades after betraying the Jedi Order and turning to the dark side.

ANSWER: Darth Vader [or Anakin Skywalker; prompt on partial answer]

5. This man included very little detail below the waist in his portrait of a woman who painted a folding picture book of her own, Magda Mauter-Markhof. That work, along with a pencil drawing of a naked man atop a woman, is included in this artist's *Twenty-Five Drawings*. He depicts a sleeping naked girl with red hair curled up and surrounded by purple being visited and impregnated by the (*) golden rain of Zeus in his *Danaë*. That work and this artist's *Portrait of Adele-Bloch Bauer* exemplify the "Gold Phase" of this painter who left the Association of Austrian Artists to begin the Vienna Secession. For 10 points, name this Austrian painter, known for his use of gold foil in portraying women in works such as *The Kiss*.

ANSWER: Gustav Klimt

6. One writer states that this action "whatever its rights or wrongs, isn't a species of wrongful interference." Another author about this topic uses the analogy of a person who opens a window, only to have a burglar walk in. A third author argues for the immorality of this action by claiming that a certain (*) crime is defined by "depriving someone of a future like ours." In a well-known analogue for this issue, a person's circulatory system is attached to that of a dying violinist in order to save the violinist's life. For 10 points, name this issue written about by Margaret Little, Don Marquis, and Judith Thomson, to which a typical approach attempts to determine whether or not a fetus is a person.

ANSWER: abortion

7. This author praised the influence of Mormons in an article titled "Tales of the Promised Land." In one of his novels, a man who gives a white horse to the king of Denmark ends up living with polygamist Mormons in Utah. This author spent five years in a Luxembourg monastery, giving him unusual religious background seen in novels such as *The Great Weaver of Kashmir*. He described an American attempt to build a nuclear (*) power station in Uglu's home country in his satirical novel *The Atom Station*. In this author's best-known novel, the protagonist resists a curse laid by Kolumkilli by renaming his farm Summerhouses. In that novel, Rosa dies in childbirth with her daughter Asta, and the protagonist Bjartur farms sheep. For 10 points, name this novelist of *Independent People*, who was from Iceland.

ANSWER: Haldor Laxness

8. This scientific undertaking employed the artist J. J. Wild to illustrate its findings. John Buchanan disproved the existence of Huxley and Haeckel's primordial slime as a part of this undertaking. John Murray oversaw this effort and later made a fortune from phosphate on Christmas Island as a result of it. This investigation was one of the final blows to Edward Forbes's azoic hypothesis. This expedition pioneered (*) dredging the bottom on a global scale and it brought back thousands of specimens. This expedition surveyed its namesake "deep" in the Marianas Trench, which is the deepest spot in the oceans. For 10 points, name this 1870s British oceanographic expedition that gave its name to a space shuttle that exploded in 1986.

ANSWER: Challenger Expedition

9. Though he wasn't a politician, as a result of this man's actions, the town of Marblehead was originally built on his city's lands. This man published the first study of Native American language in his *A Key into the Language of America*. This passenger on the *Lyon* taught John Milton Dutch in exchange for learning some Hebrew. He published *The (*) Bloody Tenent of Persecution*, calling for a "wall of separation" between church and state while living among the Narragansetts in 1644. This man's extant letters to John Cotton and John Winthrop preserve his rivalry with the Massachusetts Bay Colony after he was expelled from it for his religious views. For 10 points, name this early theologian who founded the colony of Rhode Island.

ANSWER: Roger Williams

10. One setback during this campaign came at the city of Clonmel. The Eleven Years' War ended as a result of this campaign. During one battle in this campaign, Arthur Aston was legendarily beaten to death with his own wooden leg, for allegedly concealing coins in his head. During one incident in this event, St. Peter's Church was set on fire, burning everyone inside to death, and hundreds were either killed or sent to Barbados. The Battle of Rathmines was the first battle in this campaign, which featured a siege at (*) Wexford. After this event, the Penal Laws were passed to force Catholics to convert to Protestantism. The decision to embrace this campaign came from the Rump Parliament, and resulted in the New Model Army beginning the invasion in 1649. For 10 points, name this bloody conquest by a Lord Protector of an island which accordingly nurses a long grudge against England.

ANSWER: Oliver Cromwell's conquest of Ireland

11. At one banquet, this man's wife and brother-in-law, who had gone insane, began violently attacking the turkey they had been served. One of this man's wives was posthumously elected to the title of "Noble Concubine," and she was given the name of Ming-Xian. This man, who was Prisoner Number 981 in Fushu Prison, was provided with a job at the (*) Beijing Botanical Gardens after his release. This man held an imperial title for twelve days when brought to power by General Zhang Xun. He took the name of Kang Te when made the Emperor of the puppet state of Manchukuo by the Japanese. For 10 points, name this figurehead who was eclipsed in actual power by Ci Xi, the Dowager Empress, while he was the last Emperor of the Qing Dynasty.

ANSWER: Henry Puyi

12. Roland Dyens composed an Austin Tango for four of these instruments. One piece written for this instrument contains the movements *Preludio Saudade*, *Andante Religioso*, and *Allegro*. Oscar Ghiglia plays this instrument, as do Manuel Barrueco and Julian Bream. One composer for this instrument composed the pieces *Elogio de la Danza* and *El Decameron Negro*. That composer is Leo (*) Brouwer. Another piece written for this instrument develops a haunting melody with a tremolo technique in which the a, m, and i fingers play the same note in quick succession. That piece is *Recuerdos de Alhambra*, written by Francisco Tarrega. For 10 points, name this instrument for which "Silent Night" was originally composed and which is played by Andres Segovia.

ANSWER: classical guitar

13. One accurate reading of this particle's mass was accomplished by looking at 3d to 2p transitions during the capture of these particles by silicon 28. One somewhat inaccurate model for how these particles interact with atoms in systems with more than one element is the Fermi-Teller law. The E821 experiment is one of several experiments that have measured a small about 2.6 sigma discrepancy in this particle's $g - 2$ from that predicted by the standard model. Negative pions decay into a neutrino and one of these particles. These particles have a half life of (*) 2.2 microseconds, however the half life of those generated from cosmic rays can appear to be longer because of time dilation. These particles are leptons that have around 200 times the mass of an electron. For 10 points, name this lepton that is not an electron, tau, nor neutrino.

ANSWER: muon [or minus muon; or negative muon]

14. One poem attributed to this author admonishes one to not defecate in a river, and to not pee while staring at the sun. That poem, which describes the Five Ages of Man, is addressed to this author's supposed brother, Perses. In the proem of this figure's most well known poem, the muses declare that they can tell both lies similar to the truth and the truth while speaking to this poet-shepherd on Mount (*) Helicon. That work, which preceded the now-lost *Catalogue of Women*, tells of the adornment of Pandora, and the fall of Typhoeus and Ouranos while describing Zeus's rise to power among the gods. For 10 points, name this classical Greek author of the *Works and Days* and the *Theogony*.

ANSWER: Hesiodos

15. The CONCOR algorithm is used to analyze these systems by putting the data into structurally equivalent blocks. The DeGroot model is a Markov based approach for looking how consensus is reached within these systems. The karate study attempted to apply the Ford-Fulkerson algorithm to the dynamics of how these structures divide. Gaps in these structures are called structural holes. Components of these that contain only two objects are called (*) dyads. Similarity attraction and self-categorization are proposed mechanisms for why these structures seem to exhibit homophily. The lost letter experiment demonstrated how large examples of these structures can have small world characteristics, which gave rise to the idea of "six degrees of separation." For 10 points, name these structures composed of people and the interactions between them, whose name is often applied to platforms such as Facebook.

ANSWER: social network [or actor network; prompt on interaction network; prompt on group]

16. The speaker of this poem compares himself to a roe, "bound[ing] o'er the mountains, by the sides/Of the deep rivers." Seeing smoke through the trees, this poem's speaker wonders if there is some Hermit in a lonely cave. This poem asks, "If this/Be but vain belief-oh" when he mentions the "serene and blessed joy" which allows him to "see into the life of things." Lamenting, "I cannot paint/What (*) then I was", the speaker claims that nature now is the "anchor of my purest thoughts," and that his goal is to allow his "dear, dear Sister" to share his views. This poem begins, "Five years have past; five summers, with the length/Of five long winters", referring to the last time that he had visited the namesake building on the Wye River. For 10 points, name this poem addressed to Dorothy by William Wordsworth.

ANSWER: "Lines Composed a Few Miles Above Tintern Abbey on Revisiting the banks of the River Wye During a Tour. July 13, 1798."

17. A Japanese man named Chiune Sugihara, nicknamed “Sempo,” did this action, which the Glass House in Budapest was constructed in order to aid. The father of current Coca-Cola CEO Muhtar Kent performed this action using fabricated documents of Turkish citizenship. In one country, people who did this are called the “Righteous among the Nations.” Perhaps the most notable person to help this cause did so with his enamelware and (*) munitions factories. Carl Lutz fought for this cause, as did a Swedish man who issued passports, Raoul Wallenberg. A woman nicknamed Miep Gies did this for a family living in Amsterdam. Many people who did this are called ger toshav, or righteous gentiles. For 10 points, name this cause which was supported by Oskar Schindler, in order to prevent a certain group of people from being sent to concentration camps.

ANSWER: saving Jews during the Holocaust [accept anything about helping Jews, hiding Jews, protecting Jews, giving Jews work, keeping Jews away from concentration camps, or helping Jews emigrate; accept same-knowledge equivalents; prompt on “opposing the Holocaust” or “opposing Hitler/Third Reich/Nazis”]

18. An art installation in one of this building's courtyards consisted of neon lights forming a word in the middle of a box that was to be filled with dirt using sacks provided to people working in the building. The initial design for this building came from Paul Wallot, and above the entrance to this building is an inscription reading “To the People.” This building contains a cone-shaped light sculpture made of 360 mirrors that descends from the top of the building's glass (*) cupola. This building was renovated in the 1990s by a Norman Foster-led team. In 1995, Christo and Jean-Claude wrapped this building in polypropylene. Some of its walls are covered in graffiti left by Soviet soldiers. For 10 points, name this building where the Bundestag, the German Parliament, meets.

ANSWER: Reichstag building [or Reichstagsgebäude]

19. The scholar Tzetzes claimed to have been taught not to lie by this man. This man preached the superiority of the sun over all gods and advocated homosexuality. After his death Apollo turned to stone a serpent which tried to eat his head. Heracles killed this man's brother (*) Linus after Linus taught Heracles this man's art. Zone [ZOH-nay] is the site of rocks and trees which this man moved, and he protected the Argonauts from the Sirens' song. After his death, his head floated to Lesbos and made prophecies. For 10 points, name this man who calmed Cerberus with his lyre when he went down to Hades to save his wife Eurydice.

ANSWER: Orpheus

20. Cool T dwarfs like Gliese 229b have spectra that when compared to L dwarfs are dominated by this molecule. This non-diatomic molecule can be produced as a result of serpentinization. The surface of Makemake is thought to be covered by deposits of this molecule. Low levels of this molecule have been detected by orbiters on Mars but those detections have been challenged by the failure of (*) Curiosity to detect this molecule. This molecule is responsible for Neptune's blue coloration. This molecule is primarily made biotically on Earth and it is thought that this molecule rains down into lakes on Titan. For 10 points, name this molecule with formula CH₄.

ANSWER: methane [or CH₄ before mentioned]

TIEBREAKER/EXTRA

21. This author recalled standing next to a man who says, “Yes, I think I shall express the accusative case by a prefix”, and next to another who created Newbosh, in his essay “A Secret Vice.” This author ended one essay with the phrase, “it must ever call with a profound appeal—until the (*) dragon comes.” In that essay, this man argued that a certain work should be studied for its literary, not its historical merit. This author of “Beowulf: The Monsters and The Critics” and member of the Inklings convinced his good friend C.S. Lewis to convert to Christianity. Scholarship on this man focuses on the languages he created, such as Khuzdul, Numenorean, Sindarin, and Entish. For 10 points, name this Oxford scholar who reinvented the fantasy genre with *The Lord of the Rings*.

ANSWER: John Ronald Reuel Tolkien

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1. Answer some questions about phase diagrams, for 10 points each:

[10] This is the point on a phase diagram in which the compound exists as a solid, liquid, and gas all at the same time.

ANSWER: triple point

[10] This formula states that the number of degrees of freedom equals the number of components minus the number of phases plus two.

ANSWER: Gibbs phase rule

[10] In this kind of transformation, a liquid and a solid phase combine to form a single solid phase. The production of austenite is an example

ANSWER: peritectic

2. This deity's two eyes are believed to be the sun and the moon, and he is married to the earth goddess Asase Ya. For 10 points each:

[10] Name this Ashanti sky god.

ANSWER: Nyame

[10] Nyame is the father of this spider-god and source of all stories.

ANSWER: Anansi

[10] Anansi let wisdom into the world while trying to climb a tree, when he dropped this gourd which contained wisdom after being taunted by his son Ntikuma.

ANSWER: a calabash

3. The adagio from this ballet was used in the score of *2001: A Space Odyssey*. For 10 points each:

[10] Name this ballet in which the title character stops her husband Giko in a plot to embezzle money from the cotton factory on their collective farm. This ballet's most notable piece plays during the triple wedding at its end.

ANSWER: Gayane

[10] *Gayane* and its "Sabre Dance" were composed by this Armenian who composed a different notable adagio in another ballet, *Spartacus*.

ANSWER: Aram Khachaturian

[10] Khachaturian was criticized by the Soviet government for Western intrusions, such as quoting the Dies Irae, in his work of this genre. The most notable composition in this genre was written in response to World War I and was recorded by Jacqueline du Pre.

ANSWER: Cello Concerto in E minor

4. He was the last head of the National Party, and he gave the February 2 speech arguing for the lifting of restrictions on political groups and an end to the death penalty. For 10 points each:

[10] Name this final prime minister of apartheid South Africa, who transitioned to the democratic Mandela government.

ANSWER: Frederik Willem **de Klerk**

[10] de Klerk was publicly denounced by P.W. Botha after visiting this longtime president of Zambia. By that time, this man had been succeeded by Frederick Chiluba.

ANSWER: Kenneth **Kaunda**

[10] Apartheid was formally instituted following this Dutch Reformed Church minister's victory in the 1948 South African presidential election. According to Wikipedia, he once dispatched the South African Air Force to steal the remains of the second-ever discovered coelocanth from the Comoros.

ANSWER: Daniel Francois **Malan**

5. This character claims, "A bird of my tongue is better than a beast of yours" and declares she will not run mad until a "hot January." For 10 points each:

[10] Name this character who engages in a "merry war" of wits. She later insists that Claudio must be killed for the insult he has given to her friend Hero.

ANSWER: **Beatrice**

[10] Luckily, the couples of Claudio and Hero, and Benedick and Beatrice, end up together at the end of the Shakespeare play set in Messina.

ANSWER: ***Much Ado About Nothing***

[10] In the opening song of *Much Ado About Nothing*, Beatrice tells the ladies to do this three-word action, for "men were deceivers ever." In the song titled for this action, the ladies are instructed instead to sing "Hey, nonny nonny."

ANSWER: "***Sigh no more***, ladies"

6. This analogy was used to explain why investors will buy securities based on their demand rather on their value. For 10 points each:

[10] Name this analogy used in Book 12 of a certain economic tract. It hypothesizes a namesake competition in which the winners are the people who picked the most popular option.

ANSWER: Keynesian **beauty** contest

[10] The Keynesian beauty contest was described in this seminal work of economics, which was also the first to describe the consumption function.

ANSWER: *The **General Theory** of Employment, Interest, and Money*

[10] At equilibrium the aggregate demand is equal to output; this relationship is shown by this curve, usually named for Keynes.

ANSWER: Keynesian **cross**

7. Name these witty literary folk who contributed to periodicals, for 10 points each.

[10] This woman used the pseudonym "Constant Reader" for her literary reviews in *The New Yorker* and described Hazel Morse in her story "Big Blonde." She also was a founding member of the Algonquin Round Table.

ANSWER: Dorothy **Parker**

[10] This "Sage of Baltimore" contributed to the *Baltimore Sun*. This author of *The American Language* coined the term "Monkey" about the Scopes trial.

ANSWER: Henry Louis **Mencken**

[10] This author scathingly criticized small-town America in a story in which a group of barbers cannot believe that Paul Dickson shot Jim on a duck-hunting trip, "Haircut." He was also known as a sports columnist, and he wrote about White Sox pitcher Jack Keefe in "You Know Me, Al."

ANSWER: Ring **Lardner**

8. This technique can be used to find the potential above a conducting plane with a point charge above it. For 10 points each:

[10] Name this approach that for the just described scenario would involve placing an imaginary charge equidistant below the boundary and then making use of the uniqueness of solutions satisfying the boundary conditions.

ANSWER: **method of images** [or **method of image** charges]

[10] In the aforementioned problem, one can utilize the uniqueness theorem for potentials satisfying this equation, which states that the Laplacian of the potential equals negative charge density divided by the permittivity.

ANSWER: **Poisson** equation

[10] This law, one of Maxwell's equations, says that the electric flux through a surface is equal to the charge inside the surface divided by the permittivity of free space.

ANSWER: **Gauss's** Law

9. This composer successfully fooled the ninth symphony curse, then wrote his ninth symphony anyway and died thereafter. For 10 points each:

[10] Name this composer of *Kindertotenlieder* and *Das Lied von der Erde*.

ANSWER: Gustav **Mahler**

[10] Mahler wrote a different five-lieder cycle set to the poetry of this man. It includes the songs *Um Metternich* and *Liebst du um Schonheit*.

ANSWER: Friedrich **Ruckert**

[10] This Mahler symphony features a five-minute pause in between the first and second movements. In the final movement, a chorus sings "Aufersteh'n, ja aufersteh'n", meaning "Rise again, rise again."

ANSWER: **Resurrection** Symphony [or his **second** symphony]

10. Right before this battle, a figure on one side offered to bring forces from Thrace in exchange for commanding authority, but he was rejected. For 10 points each:

[10] Name this 405 BCE Spartan victory over the Athenian navy, the final battle of the Peloponnesian War.

ANSWER: Battle of **Aegospotami**

[10] This regime of collaborators was put in place in Athens following the war; many of Plato's friends participated.

ANSWER: the **Thirty Tyrants**

[10] Conon of Athens fought at both Aegospotami and this Athenian victory the previous year, in which Callicratidas was defeated off the eastern shore of Lesbos.

ANSWER: Battle of **Arginusae**

11. In one episode of this show, Anthony sends Dan to the cornfield after turning him into a jack-in-the-box, prompting his father to say, "Tomorrow's gonna be...a real good day!" For 10 points each:

[10] Name this classic sci-fi show. The opening of each episode of this show featured a narration beginning "you are entering another dimension."

ANSWER: *The* **Twilight Zone**

[10] In the episode "Time Enough at Last," Burgess Meredith plays a man who finally has enough time to read his favorite books after a nuclear war. The episode ends with his character doing this, then lamenting "it's not fair!"

ANSWER: **breaking** his **glasses** [or equivalent]

[10] In this episode, a satire of McCarthyism, neighbors turn paranoid against each other after seeing an alleged alien spaceship. It turns out there was an alien invasion, but the aliens are just flickering lights on and off.

ANSWER: "The **Monsters are Due on Maple Street**"

12. It was finally discarded in 1924 by the Immigration Act, which stopped all emigration from Asia entirely. For 10 points each:

[10] Name this informal agreement between the US and Japan in 1907. According to this agreement, Japan would agree to reduce the number of passports it issued for emigrants to the US.

ANSWER: **Gentlemen's Agreement** of 1907

[10] The Gentlemen's Agreement was provoked by anti-Japanese sentiment and the rise of segregation in this Western city, which, a year earlier, had been plagued by a natural disaster.

ANSWER: **San Francisco**, California

[10] One result of the agreement was the rise of this practice, in which Japanese-American men sent portraits of their faces to matchmakers in Japan, and their future spouses came to join them in the US.

ANSWER: **picture brides**

13. These rocks can be chemical, biochemical, or clastic. For 10 points each:

[10] Name these rocks made up of deposited material. They include sandstone and shale.

ANSWER: **sedimentary** rocks

[10] These are clastic sedimentary rocks made of rounded gravels greater than 2 mm in diameter. They should not be confused with the angular breccias.

ANSWER: **conglomerates**

[10] These sedimentary rocks have a similar composition to that of shale, but unconsolidated fine clay or silt sized sediment. Shale is often considered a type of these rocks that break into layers as opposed to blocky pieces.

ANSWER: **mudstones**

14. This character's daughter Fumiko runs away near the end of the novel, possibly killing herself as this character does with sleeping pills. For 10 points:

[10] Name this tea ceremony fan, who initiates an affair with the much younger Kikuji Mitani in order to prolong her relationship with Kikuji's now-dead father.

ANSWER: Mrs. **Ota**

[10] Kikuji Mitani and Mrs. Ota appear in this novel, named for the pattern on the pink scarf of Yukiko Inamura, the suggested proper bride for Kikuji.

ANSWER: **Thousand Cranes** [or **Sembazaru**]

[10] This author of *Snow Country* and *The Sound of the Mountain* wrote *Thousand Cranes*.

ANSWER: **Kawabata** Yasunari [or Yasunari **Kawabata**]

15. In Turkey, a dish containing nuts and fruits called “Noah’s Pudding” is consumed on this day, which traditionally falls on the day that Noah’s ark made landfall. For 10 points each:

[10] Name this commemoration of the Battle of Karbala and the martyrdom of Husayn. In most other countries, this Muslim holiday is commemorated with mourning.

ANSWER: Day of **Ashura**

[10] Ashura is primarily celebrated by this group of Muslims, who believe that Ali and his descendants were Muhammad’s rightful successors.

ANSWER: **Shia** Islam [or **Shi’ite**; antiprompt on **Ismailis**, **Twelvers**, **Seveners** or any other names for specific subgroups of Shiites]

[10] In some nations, the Day of Ashura is marked by this practice, in which a mourner strikes him or herself with a sword or knife until the head begins to bleed. In India, practitioners use heavy chains to cut open their backs.

ANSWER: **tatbir** [or **zanjeer**; or **zanjeer zani**]

16. For 10 points each, name these Francisco Goya artworks.

[10] A lantern in the center of this painting supposedly represents the Crucifixion. In it, a man with a white shirt and yellow pants faces a firing squad of Napoleon’s army.

ANSWER: *The* **Third of May, 1808** [or *El* **Tres de Mayo, 1808**]

[10] In this etching from *Los Caprichos*, a man asleep at his desk, which has the title written on it, is surrounded by bats, owls, and a large cat.

ANSWER: *The* **Sleep of Reason Produces Monsters** [or *El* **sueno de razon produce monstruos**]

[10] Goya’s depiction of this scene was probably paired with *Saturn Devouring His Son* in the Quinta del Sordo. In his depiction of this scene, curiously absent of blood, a woman sits in prayer to the left.

ANSWER: **Judith** and **Holofernes** [or **Judith Beheading Holofernes**; or equivalents]

17. This Finno-Urgic ethnic group expanded west into Europe in the ninth and tenth centuries. For 10 points each:

[10] Name this group which united with the Khazars under Arpad, and were defeated in 955 at the Battle of Lechfeld while fighting against Germany.

ANSWER: **Magyars** [or **Hungarians**]

[10] The victor at Lechfeld was this German king, the son of Henry the Fowler.

ANSWER: **Otto I** [or **Otto the Great**; prompt on **Otto**]

[10] Christianity started to spread through the Magyar kingdom under this pagan ruler, whose son St. Stephen, later received the crown of Hungary from the Pope.

ANSWER: **Géza**, Grand Prince of the Hungarians [do not accept Géza I or Géza II]

18. One novelist from this country called some of his works “nivolas” rather than novels, including his story about a novel subtitled “History of a Passion,” *Abel Sanchez*. For 10 points each:

[10] Name this country, whose Generacion de ‘98 included Miguel de Unamuno and Pio Baroja.

ANSWER: Kingdom of **Spain**

[10] Another “Generacion” of Spanish authors appeared in this twentieth-century year, to commemorate the death of Luis de Gongora. Federico Garcia Lorca was the best-known author from the Generation of this year.

ANSWER: **1927**

[10] One author of the later Generacion de ‘36 in Spain was Camilo Jose Cela, who wrote this novel consisting of several vignettes of various Madrilenos, over a few days in December 1943. It ends with Franco's police on the lookout for Martin Marco, who has written a politically unfavorable article.

ANSWER: *The **Hive*** [or *La **Colmena***]

19. Answer the following about political changes in the year 2012, for 10 points each.

[10] This is the only one of the five UN Security Council countries to *not* undergo an election or change of leadership in the year 2012.

ANSWER: **United Kingdom** [or **Britain** or **Great Britain**]

[10] This politician is expected to become the Chinese head of government in March 2013, replacing Wen Jiabao as Premier of the State Council, alongside Xi Jinping's rise to the presidency. He will become a leading figure in the fifth generation of Communist Party Leadership.

ANSWER: **Li Keqiang**

[10] This far right-wing party's candidate in the French 2012 elections, Marine Le Pen, received eighteen percent of the vote in the first round, falling behind Francois Hollande and Nicolas Sarkozy. It is the third-largest political party in France.

ANSWER: **Front National** [or **FN** or **National Front**]

20. This transcription factor that regulates expression of CNTNAP2 was found to be mutated in members of the KE family with language disorders. For 10 points each:

[10] Name this helix-turn-helix motif. Proteins containing this, and named after this motif, include FOXP2 and FOXO1.

ANSWER: **forkhead** box or **winged helix**

[10] While FOXP2 is important in brain development, FOXP3 regulates development of the regulatory type of these immune cells whose other types include helper and cytotoxic cells.

ANSWER: **T** cells

[10] FOXD3 has been shown to repress melanocyte development in some tissues and has been implicated in one family's autosomal dominant form of this disease, in which patches of depigmented skin appear.

ANSWER: **vitiligo**

21. Answer these questions about everyone's favorite politician, Strom Thurmond, for 10 points each:

[10] Thurmond ran for president in 1948 as a candidate from this party. He received 39 electoral votes.

ANSWER: The **States Rights Democratic Party** [or **Dixiecrats**]

[10] Thurmond holds the record for the longest lone filibuster at just over 24 hours when he filibustered this piece of legislation.

ANSWER: The **Civil Rights Act of 1957**

[10] Thurmond at one point held the title of longest serving senator, though he has since been passed by Robert Byrd and this man, who died in 2012 after a long career as Senator from Hawaii.

ANSWER: Daniel **Inouye**