

VCU Closed

February 2, 2013

Packet by Haverford (Jon DeWitt, Thomas Littrell, Alec Johnsson, Graham Lobel) and Michigan State B (Ben Johnson, Matt Klovski, Mike Malloy, Jordan Smith)

1. After losing a battle in the mountains of Zlatitsa Pass, this man ambushed the pursuing army at Dragoman pass, capturing Mahmud Bey. Ciriaco of Ancona asked this man to ignore the Peace of Edirne, and later this man broke the Peace of Szeged. This man fought the Long Campaign with (*)

Wladyslaw III, who died in a battle where this man's brother-in-law Michael Szilagyí led the left flank. He became regent for Ladislaus the Posthumous following Wladyslaw's death at the Battle of Varna. This loser of the Second Battle of Kosovo had the Noon Bell rung to encourage breaking the siege of Belgrade against Mehmet II. For 10 points, identify this leader of Hungary who fathered Matthias Corvinus.

ANSWER: Janos Hunyadi [or John Hunyadi]

2. It marked a departure from the Richardson Romanesque style for buildings of its type. The interior of this building was structured in a U-shape with a large central court, allowing its realtor to boast that "every office or room in the building will have direct outside light" when it opened in 1892. In line with its architect's belief that a tall building should be structured like a column, it is divided into three parts: a base of red granite and brown sandstone, followed by (*) seven stories of red brick and a top story of ornamental terra cotta with a celery leaf design. None of these materials serves any key structural purpose, as the building has a steel frame. For 10 points, name this Louis Sullivan-designed, St. Louis building, a landmark skyscraper and one of the first examples of the Chicago school of architecture.

ANSWER: the Wainwright Building

3. In one novel by this author, Goethe converses with Hemingway and Rubens has an affair with Agnes. This author of *Immortality* also penned a work in which the thrashing of ostriches causes Tamina to phone her father. That novel by him tells seven intertwined stories, one of which describes a student of poetry whose love for (*) Kristyna is tempered by *litost* [LEE-toast]. Franz's divorce is followed shortly by Sabina's betrayal in another of this author's novels, which focuses on Tereza's troubled marriage with Tomas. For 10 points, identify this Czech author of *The Book of Laughter and Forgetting* and *The Unbearable Lightness of Being*.

ANSWER: Milan Kundera

4. Ivermectin inhibits glutamate-gated channels that conduct this ion, and mutations in another channel that conduct it cause myotonia congenita. Because this ion has an equilibrium potential close to negative 65 millivolts, it causes shunting inhibition in neurons. Via G-protein hyperactivation, cholera toxin causes diarrhea by driving the (*) efflux of this ion. A co-transporter that moves two of this ion, along with sodium and potassium, is inhibited by loop diuretics. Another channel that conducts both this ion and thiocyanate is stuck to the cytoskeleton by a PDZ domain, and a deletion at phenylalanine-508 of that protein causes cystic fibrosis. For 10 points, name this anion, the predominant negatively-charged species in both the cytosol and extracellular fluid.

ANSWER: chloride [or Cl⁻]

5. This dynasty continued a system in which one month out of every five was given to military service by those who lived within 500 li of the capital; that was the Fubing system. A Buddhist savings bank stocked by donations was liquidated during this dynasty and was called the "Inexhaustible Treasury." Governors known as "jiedushi" first sprang up during this period under emperor (*) Xuanzong. A major insurrection during this dynasty ended after Shi Chaoyi killed himself. This dynasty was interrupted by the second Zhou dynasty when Ruizong announced that his mother, Wu Zetian, would be emperor. For 10 points, name this Chinese dynasty that lasted from 618 until 907 and faced the An Lushan rebellion.

ANSWER: Tang Dynasty

6. Years prior to the introduction of Starburys, this basketball player endorsed a \$35 Spalding sneakers and asked, "how can a poor working mother buy Nikes or Reeboks that cost \$120?" The first time this man tried to dunk he climbed up on a chair. Alongside Ralph Sampson, he led his team to an upset of the Lakers in the 1986 Western Conference finals. He played center for the (*) Toronto Raptors before retiring with a back injury. He is the NBA's all time leader in blocks, and in his trademark move, he faked out and spun to execute the "dream shake." For 10 points, identify this Nigerian former Houston Rockets center.

ANSWER: Hakeem Abdul Olajuwon [or Akeem Olajuwon]

7. One of this man's polyptychs shows the nativity flanked on one side by John the Baptist and Saint Michael, and on the other by Jerome and George. In addition to the *Albani Torlonia Altarpiece*, one of this man's paintings shows at its center Mary being given a wedding ring by Joseph in front of an octagonal building. According to Vasari, this man apprenticed for Andrea del Verrocchio and he took his name from the most important city in (*) Umbria. His most famous work depicts three separate buildings in the background of an overcast painting, at the front of which is St. Peter receiving the title objects, and symbol of the Vatican, from Jesus. For 10 points, identify this Italian Renaissance painter of *The Delivery of the Keys*, the teacher of Raphael.

ANSWER: Pietro Perugino [or Pietro Vanucci]

8. An extension of this theory that can account for strong coupling is named for Migdal and Eliashberg. This theory recapitulates the Matthias rules, which predict that cubic systems are best for displaying this theory's described phenomenon. One prediction of this theory is that the energy gap at T equals zero is around 3.5. One success of this theory was its ability to predict the effect of the isotope of the material on the (*) transition temperature, and this theory states that phonons mediate the coupling of electrons at very low temperatures. This theory also explains the expulsion of magnetic fields in the Meissner effect. For 10 points, name this theory which states that electrons combine into Cooper pairs within a superconductor, named for three people.

ANSWER: BCS theory [or Bardeen-Cooper-Schrieffer theory, any order is fine but you need all 3]

9. This man prophesized that Zebulun would live on this shore of the sea, and said that Issachar is a "large-boned ass." This man received his wages in spotted, speckled, and brown goats and sheep, and he bred them to make himself wealthy. One of this man's best known visions occurred while en route to Haran at a place he later renamed (*) Bethel. One of this man's wives took a Teraphim from the house of Laban when they fled with their family during the night. He worked for fourteen years to pay for both his brides because he was tricked into taking Leah instead of Rachel. For 10 points, identify this third Hebrew patriarch who wrestled with an Angel and saw a namesake ladder to heaven.

ANSWER: Jacob [or Yakub]

10. One of these poems begins with, "Zeus lies in Ceres' bosom" evoking a sense of fertility before concentrating on the *Pocket Book of Verse*, and later the construction of a mud nest by a wasp is reprised. In another of these, a lament for J. P. Arnold is heard through the language of Bertran de Born. In the first of these, the author adopts the persona of "OY TIS" and later blends into Wuluwaid, then (*) Ouan Jin. In the 81st the author notes, "Borne upon a zephyr's shoulder / I rose through the aureate sky" while the 80th ends, "God knows what else is left of London, our London." For 10 points, name this group of "songs" partially written on toilet paper while the author was imprisoned in an exposed cage in Tuscany for making broadcasts on behalf of fascist Italy.

ANSWER: Ezra Pound's Pisan Cantos

11. A budget presented to the Texas legislature in January 2013 eliminated all funding for these items. In July 2012, photographs of these items taken in several places in California spread rapidly on social networks, affecting the API. The invention of the IBM 805 in 1937 allowed the large-scale use of these things. Most Slavic countries have a form of them called the Matura. Reasons for compromising these things are discussed in the first chapter of *Freakonomics*. A story about a talking (*) pineapple caused controversy surrounding them in New York in spring 2012. Major companies who create them include Pearson, Riverside Publishing and Harcourt. Garfield High School in Seattle has refused to administer them, and they are the sole factor in determining admission to New York City's specialized public high schools. For 10 points, identify these controversial measures of student performance.

ANSWER: standardized tests

12. One false proof of this statement was published in 1879 by Alfred Bray Kempe, and an early correspondence about it consists of a letter sent from De Morgan to Hamilton. Francis and Frederick Guthrie originated this problem. Heinrich Heesch's work on this problem led him to originate the method of discharging. The eventual proof of this statement was simplified by Robertson and Seymour, and was derisively compared to a (*) telephone directory by one critic. That proof was done by Appel and Hankin using 1200 hours of computer time to check every case. For 10 points, name this statement which gives the minimum number of shades needed to color a map.

ANSWER: four color theorem

13. This founder of the Zinc Corporation developed the froth floatation process in his *Principles of Mining*. In another role, he was derided by his predecessor as "Wonder Boy." This man supervised the response to the Great Mississippi Flood. He released the Clark Memorandum and ordered (*) Douglas MacArthur to disperse the Walter Waters-led "Bonus Expeditionary Force." He had earlier made his name as head of the U.S. Food Administration during World War I. For 10 points, identify this man who was the namesake of derisive "flags" and "villes" during the Great Depression, which began when he was President.

ANSWER: Herbert Clark Hoover

14. Grisolan stands guard while another character feigns madness to test obedience in this work. The wife of a man whose name is a pun on "castrated" is killed with a poisoned bible because she had been told the details of a murder in this play. Ferdinand, who is believed to be a werewolf in this play, regrets hiring someone to kill his sister after he sees her body. This play ends during a scene in which Ferdinand is killed by (*) Bolsano after Bolsano had stabbed and killed the Cardinal. Antonio, the secret husband of the title character, leaves the fortune to his eldest son in, for 10 points, what play about a noblewoman, written by John Webster?

ANSWER: *The Tragedy of* The Dutchess of Malfi

15. This character tricked the priest of Tollan into exile. Every year, one boy was chosen to become this God's embodiment on earth and was treated with food and women before being sacrificed. He kidnapped Tlaloc's bride, and forced that goddess of fertility, (*) Xochiquetzal, to be his wife. In his human form, he has black stripes on his face and is represented by obsidian. His decision to use himself as bait for the primeval sea monster Cipactli resulted in his foot getting bitten off, but he and Quetzalcoatl still managed to build the land out of Cipactli. For 10 points, identify this Aztec god who rivaled Quetzalcoatl, and whose name means "smoking mirror."

ANSWER: Tezcatlipoca

16. This man's Second Piano Concerto is dedicated to his psychologist Nikolai Dahl, who treated him after he had a breakdown after the premiere of his First Symphony. That symphony which features a theme based on *Dies Irae* as well as a gypsy scale as part of the second theme of its first movement, a grave-Allegro non troppo. This man wrote another work which employs 5/8 time to evoke the sense of (*) rowing and the *Dies Irae* to symbolize death. That work by him is based on a painting of the same name by Arnold Böcklin. For 10 points, name this Russian composer of *Isle of the Dead*, as well as *Rhapsody on a Theme of Paganini*.

ANSWER: Sergei Rachmaninoff

17. One section of this work sees the author speculate that "never blows so red the rose as where some buried Caesar bled", and in another section, it describes "the Master of the Show" who "plays upon this Chequer-board of night and day." In another stanza, a member of "the loquacious Lot" asks "who is the potter, pray, and who is the pot?" This collection is the namesake of an (*) iambic pentameter quatrain that rhymes in an "a-a-b-a" pattern. In Edward FitzGerald's fifth translation of this work, paradise is described as "a book of verses beneath the bough, a jug of wine, a loaf of bread and thou." For 10 points, identify this collection of Persian poetry, attributed to Omar Khayyam.

ANSWER: The Rubaiyat of Omar Khayyam

18. In addition to measuring register allocation, the Strahler order is used to measure these entities based on the number of splits it contains. The Bradshaw model shows that the average load of these entities increases as they continue. The relationship between volumetric discharge of these entities can be modified by (*) weirs, which may be built across these structures. The discharge of weirs is described by a structural constant as well as the width of the crest and the height of the head. Erosion of the riparian zones of these entities can necessitate restoration as grass and soil may be washed away from the bank. For 10 points, identify these bodies of water such as the Delaware and the Mississippi.

ANSWER: River [accept equivalents like creek as long as the flowing movement of water is implied]

19. This man built the Sangarius Bridge to improve communication throughout his empire, one of many structures he built that Paul the Silentary wrote poems about. Evagrius Scholasticus recorded that he was affected by boils during his namesake plague. During his rule, Gelimer was captured after the Battle of Tricamarum, ending the (*) Vandalic War. After Kavadh I died, this man agreed to the "Eternal Peace" which did not last through the Lazic war, in which this man sent troops against Khosrau I. a plague named for this man. In a "secret history" of this man's rule, his wife is scandalized by Procopius. For 10 points, identify this Byzantine emperor who was married to Theodora and passed a namesake code of laws.

ANSWER: Justinian I [or Justinian the Great]

20. Andreas Demetriou proposed a modification of this man's theory which accounts for changes in the speed of processing. This man conducted an experiment in which a subject was shown views of a

mountain and then asked what view a doll would see, demonstrating egocentrism. In addition to that experiment with Barbel Inhelder, this man used an experiment in which (*) water in one beaker is put into a narrower beaker, causing children to think that there was more water to demonstrate children's lack of understanding of conservation. His best-known theory describes the acquisition of language as part of the preoperational stage. For 10 points, name this Swiss child psychologist who described a number of developmental stages in children.

ANSWER: Jean Piaget

TIEBREAKER/EXTRA

21. One character in this work recounts a story about a snake-oil doctor who believed sobriety to be a cause for premature death, while another character uses his wife's adultery to excuse his alcoholism. The final scene in this work sees Hugo declare "the days grow hot in Babylon!" Cora and (*) Chuck hope to get married and buy a farm, while returning to the police force is Pat McGloin's pipe dream. After betraying his mother and his fellow anarchists, Don Parritt commits suicide, per the advice of the "Foolosopher", Larry Slade. For 10 points, identify this play, which sees Hickey confess to murdering his wife seconds before his arrest in Harry Hope's Saloon, a work of Eugene O'Neill.

ANSWER: The Iceman Cometh

22. This philosopher distinguished between active nature and a system of modes when he drew the distinction between *Natura Naturans* and *Natura Naturata*, the latter following from the former as all follows from divine nature. This man argued that things seen as good or bad were only considered as such because they were good or bad to people, and thus those terms were relative in his *Treatise on the Improvement of the Understanding*. This man's (*) *Contatus* principle asserts that, "Each thing, as far as it can by its own power, strives to persevere in being" and is "IHIP" in the work in which it appears. In this man's Pantheism God is Nature and conversely, and he uses a number of axioms in a section title, "Of Human Bondage." For 10 points, name this Jewish-Dutch philosopher and author of *Ethics*.

ANSWER: Baruch Spinoza

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1. A double one of these systems is a simple chaotic system, and elliptic integrals are required for a complete description of this system when the small-angle approximation isn't used. For 10 points each:
[10] Name this type of simple harmonic oscillator which consists of a weight on the end of a massless spring.

ANSWER: pendulum

[10] The period of a pendulum is proportional to this power of the length of the string.

ANSWER: one-half [or square root]

[10] Plotting the pendulum in phase space shows that the trajectories have one of these boundaries at multiples of pi, which separate different modes of a dynamic system.

ANSWER: separatrix

2. The sculpture may have been inspired by liquid mercury and is a popular attraction because of its reflectiveness. It is made of 168 steel plates and weighs one hundred tons. For 10 points each:
[10] Name this highly polished sculpture in the AT&T Plaza in Chicago, that is sometimes called "The Bean" because of its shape.

ANSWER: Cloud Gate

[10] This artist of Cloud Gate also designed various versions of a large concave disk called the *Sky Mirror* that have been installed in such places as Rockefeller Center and the Hermitage.

ANSWER: Anish Kapoor

[10] This other Kapoor sculpture was the winning art proposal for the 2012 Olympic Games. It looks like a corkscrew tower with a red girder chain wrapped around it.

ANSWER: Orbit

3. The first section of this novel features a group of critics who are searching for the author Benno von Archimboldi in Santa Teresa. For 10 points each:

[10] Name this novel in five books, which, in its last book, reveals that Archimboldi is actually Hans Reiter.

ANSWER: 2666

[10] This author of 2666 also wrote *The Savage Detectives*, in which Arturo Belano and Ulises Lima search for Cesárea Tinajero.

ANSWER: Roberto Bolaño

[10] Bolaño hails from this country, much like Gabriela Mistral and Pablo Neruda.

ANSWER: Chile

4. This city is home to Templetown and a neighborhood to its north known as the Badlands, which is located between Allegheny and Lehigh Avenue. For 10 points each:

[10] Name this consolidated city-county found across the Delaware River from Camden, also home to Spruce Hill and Center City.

ANSWER: **Philadelphia**

[10] This section of Broad Street in Center City Philadelphia is home to the Philadelphia Orchestra, the Academy of Music, the Wilma Theater, and Suzanne Roberts Theatre.

ANSWER: **Avenue of the Arts**

[10] This river that runs southeast through Philadelphia passes through Norristown and Reading. It is home to the Aberdeen Dad Vail Regatta, the largest American intercollegiate rowing event.

ANSWER: **Schuylkill** River

5. There are a number of “best” things in the *Poetic Edda*, such as this objects that was created by Ivaldi's sons. For 10 points each:

[10] Name that object which is owned by Freyr and can be folded up like cloth and carried in the pocket, though it is smaller than the ship Naglfar.

ANSWER: **Skithblathnir** [or **Skíðbladnir**]

[10] This is noted as the best of bridges; it is a rainbow that connects Midgard to Asgard near Himinbjorg, where Heimdallr, who guards this bridge, lives.

ANSWER: **Bifrost** [or **Bilfrost**]

[10] The best of dogs is this animal, who guards the gates of Hel, and will fight Tyr at Ragnarok. An alternate definition of “tyr” reveals that this animal may be Fenrir, and that “tyr” refers to a “god.”

ANSWER: **Garmr** [or **Garm**]

6. This man relocated his palace to the Esquiline Hill as part of his expansion of the city. For 10 points each:

[10] Name this leader, who reorganized society based on the armor that each man could afford and eventually was killed by Tarquinius Superbus.

ANSWER: **Servius** Tullius

[10] Servius Tullius was one of these men. The last of these men was kicked off the throne by a revolt led by Brutus and Collatinus after Sextus raped Lucretia, and that revolt created a republic.

ANSWER: **Kings of Rome**

[10] Rome was founded by Romulus on this hill, which is the centermost of the hills of Rome. It is where the more wealthy Romans lived.

ANSWER: **Palatine** Hill

7. These occur at 2.5, 2.82, and 3.27 AU, which correspond to the 3:1, 5:2 and 2:1 orbital resonances with Jupiter. For 10 points each:

[10] Name these sections of the asteroid belt which are notably absent of asteroids.

ANSWER: **Kirkwood** Gaps

[10] Some of the asteroids that do lie in the Kirkwood Gaps such as the Alinda family have a high value of this, which in their case is between .4 and .65. This value measures just how non-circular an orbit is.

ANSWER: orbital **eccentricity**

[10] This other family of asteroids besides the Alinda family are located around 3.2 AU from the sun and are in a 2:1 resonance with Jupiter's orbit. The asteroid Stephengould is a member of this family.

ANSWER: **Grigora** Family

8. "Waves of anger and fear circulate over the bright and darkened lands of the earth" in this poem, whose author claims that "defenceless under the night our world in stupor lies." For 10 points each:
[10] Luther, Thucydides, and "the Collective Man" all make appearances in what poem, whose title matches the date on which World War II began?

ANSWER: "**September 1, 1939**"

[10] "September 1, 1939" was written by this Anglo-American poet, who noted that "everything turns away quite leisurely from the disaster," in reference to a painting by Pieter Brueghel, in his "Musée de Beaux Arts."

ANSWER: W(ystan) H(ugh) **Auden**

[10] It would be absurd to ask about the freedom or happiness of the title character, who "held the proper opinions for the time of year" and "satisfied his employers, Fudge Motors Inc." according to this Auden work.

ANSWER: "The **Unknown Citizen**"

9. In an 1897 case study, he concluded that Protestants were more likely to kill themselves than Catholics. For 10 points each:

[10] Name this influential French sociologist who attributed that disparity to a weaker social structure in Protestant nations in *Suicide*.

ANSWER: Emile **Durkheim**

[10] This 1895 work by Durkheim presented his view of the nature of sociology, focusing heavily on the concept of the "social fact".

ANSWER: *The **Rules of the Sociological Method*** [or *Les **Règles de la Méthode Sociologique***]

[10] Durkheim believes that repressive as opposed to restitutive law, religion, and low interdependence characterized this type of social organization, typical of smaller societies.

ANSWER: **mechanical solidarity**

10. Name these places in ancient east Africa, for 10 points each.

[10] This modern-day country was ruled by the Zangwe and Solomonid dynasties in past times.

ANSWER: **Ethiopia**

[10] Located mostly in Ethiopia, with some settlements near what is modern day Yemen, this trading kingdom that peaked around the first century CE had a monumental stela at its namesake capital. This setting of the *Kebra Negast* is where Frumentius Christianized Ethiopia.

ANSWER: **Axum**

[10] The capital of the Kingdom of Kush was located along the Nile River, and is notable for its distinctive pyramids, whose shapes are steeper and narrower than the Egyptian style pyramids.

ANSWER: **Meroe** [or **Medewi**; or **Bedewi**; or **Meruwah**; or **Meruwi**]

11. It was “the hippest trip in America” and an important source of mainstream exposure for black musicians for over thirty years. For 10 points each:

[10] Name this television program that began airing in Chicago in 1970 and become the longest-running nationally-syndicated television program in U.S. history before going off the air in 2006.

ANSWER: **Soul Train**

[10] *Soul Train* was created, produced, and for twenty-two years hosted by this man, a former journalist and disc jockey known for his baritone voice. He committed suicide in February 2011.

ANSWER: Don **Cornelius**

[10] A major feature of the show was the Soul Train Dancers. One of those dancers was this Brooklynite actress and choreographer, whose dances to “Fight the Power” in the opening credits of *Do The Right Thing* and attempts to memorize an almanac in order to win on *Jeopardy!* in *White Men Can't Jump*.

ANSWER: Rosie **Perez**

12. One scene in this book sees the protagonist remove the murdered body of Jules Peterson from Rosemary's bed, and later the protagonist's wife leaves him for Tommy Barban. For 10 points each:

[10] Name this novel that sees Rosemary Hoyt have an affair with Dick Diver, a work by F. Scott Fitzgerald.

ANSWER: **Tender is the Night**

[10] This Fitzgerald short story is about the spoiled Ardita Farnam, who is captured by the swashbuckling Curtis Carlyle while vacationing with her uncle in Florida.

ANSWER: “The **Offshore Pirate**”

[10] “The Offshore Pirate” appeared in this first anthology of Fitzgerald's Short Stories that also features a story in which Warren loses interest in Marjorie, so Marjorie tricks Bernice into actually bobbing her hair.

ANSWER: **Flappers and Philosophers**

13. This work focuses on the activities of the peasants Simon, Lucas, and Hannah. For 10 points each:

[10] Name this oratorio that was inspired by a James Thompson poem about divisions of the year. It includes a bizarre “Ode to Toil.” The composer evidently disliked the libretto by van Swieten, as he called it “Frenchified trash.”

ANSWER: *The **Seasons*** [or *Die **Jahreszeiten***]

[10] This “Father of the Symphony” composed *The Seasons* in addition to a symphony that was called “miracle” because a chandelier fell during its premiere.

ANSWER: Joseph **Haydn**

[10] Haydn's *Farewell* symphony features each player in turn finishing his part and then doing this before leaving the stage.

ANSWER: **blowing out a candle** [or **extinguishing a candle** or so forth]

14. This doctrine asserts that regardless of whether the object is God or man, their goodness only differs in degree. For 10 points each:

[10] Name this term which describes properties that only differ in degree when applied to different objects, but are not fundamentally different.

ANSWER: **univocity** of being

[10] This other term refers to the properties of a thing that make it that particular thing, as opposed to quiddity, noumenon, and hypokeimenon. It's a neo-Latin term for "thisness."

ANSWER: **haecceity**

[10] This Scholastic philosopher employed univocity of being and created the concept of haecceity, and was given the nickname Doctor Subtilis for his arguments. He lends his name to a "cap" that might be used on those making similarly dumb arguments.

ANSWER: John **Duns Scotus**

15. People with the sickle cell trait or the Duffy antigen are more resistant to this organism, and among the proteins on its surface are the STEVOR antigen, PfEMP1, and MSP-1. For 10 points each:

[10] Name this parasitic genus of apicomplexan parasites that cause malaria in humans and is frequently transmitted by the *Anopheles* genus of mosquito.

ANSWER: **Plasmodium**

[10] Besides invading red blood cells, the sporozoites of plasmodium invade the cells of this organ, where they mature into merozoites.

ANSWER: **liver**

[10] The falciparum species of malaria is linked to this debilitating condition, in which the parasite lyses so many red blood cells that the free hemoglobin causes kidney failure.

ANSWER: **blackwater fever**

16. Name these things from 1960s student protests, for 10 points each.

[10] Founded in Ann Arbor, Michigan, in 1960, this left-wing student activism group organized protests at different college campuses around the country in accordance with the Port Huron Statement.

ANSWER: **Students for a Democratic Society** [or **SDS**]

[10] The protestors killed in the Kent State shootings of 1970 were protesting this specific facet of the Vietnam War, which had been made public by President Nixon on April 30.

ANSWER: U.S. **invasion of Cambodia** [accept exact equivalents; "bombing of Cambodia" isn't right]

[10] Massive student protests at this university in 1968 actually resulted in the student takeover of administrative buildings, leading to the famous Life magazine photograph of a student sitting at university president Grayson L. Kirk's desk, smoking one of the president's cigars.

ANSWER: **Columbia** University

17. A white-faced woodcutter represents the Moon, whose appearance from behind the clouds results in a fatal showdown. For 10 points each:

[10] Mother's suspicions toward Leonardo Felix are shown to be justified in this work, in which Felix and the Bridegroom kill each other with the same knife.

ANSWER: **Blood Wedding** [or **Bodas de Sangre**]

[10] *Blood Wedding* is a work of this Spanish playwright, who described the attempts of sisters Adele and Angustias to win the love of Pepe el Romano in *The House of Bernarda Alba*.

ANSWER: Federico **Garcia Lorca**

[10] In Garcia Lorca's poem about a sleepwalker from this collection, the narrator notes that "the fig tree rubs the wind with the sandpaper of its branches" and repeats the line "green, how I want you green".

ANSWER: **Gypsy Ballads** [or **Romancero gitano**]

18. Name these painters associated with the Bauhaus, for 10 points each.

[10] This Russian, a co-founder and the most famous member of Der Blaue Reiter, taught at the Bauhaus from 1921 until it was closed in 1933.

ANSWER: Wassily **Kandinsky**

[10] This Swiss expressionist lectured at Bauhaus from 1921 to 1931. His early works were almost exclusively black and white drawing and prints until a 1914 trip to Tunisia inspired him to begin painting in color, which he did to create *The Goldfish* and *Ad Parnassum*.

ANSWER: Paul **Klee**

[10] This founder of De Stijl taught a popular course at the Bauhaus in 1922, inspiring students to paint the school's theater in that style, but he was not made a faculty member. He and Piet Mondrian briefly ended their friendship because Mondrian disapproved of his use of diagonal lines.

ANSWER: Theo **van Doesburg**

19. Answer some questions about determining the binding affinity of compounds for receptors, for 10 points each:

[10] In one formulation, the binding constant is simply a version of this commonly calculated chemical value, which is usually expressed as products over reactants and symbolized K.

ANSWER: **equilibrium** constant [or **mass action** constant]

[10] Binding constants can be determined from a Scatchard plot, which are similar to these double-reciprocal plots commonly used in enzyme kinetics.

ANSWER: **Lineweaver-Burke** plots

[10] In this technique, the heat released or absorbed by dripping in small amounts of ligand into a bulb containing a binding partner and comparing to a reference cell.

ANSWER: **ITC** [or **isothermal titration calorimetry** or **isothermal titration calorimeter**]

20. It was founded in Acre in 1190. For 10 points each:

[10] Name this Germanic religious and military order that lost the Massacre on Ice to Alexander Nevsky.

ANSWER: **Teutonic Knights**

[10] After the Golden Bull of Rimini was passed, the Teutonic Knights engaged in this event, a series of campaigns to establish Christianity in parts of Eastern Europe.

ANSWER: the **Prussian Crusades**

[10] After the Teutonic Knights established control over Old Prussia, they built this castle that was completed in 1406. Located in Poland, this castle is the largest in the world by surface area and is the largest brick building in Europe.

ANSWER: **Marianburg** Castle [or **Malbork** Castle]

21. As attorney general this man brought an anti-trust suit against Northern Securities and won even though that firm didn't compete with itself, but it made it look like Teddy Roosevelt was a trust buster anyway. For 10 points each:

[10] Name this man and attorney general for Teddy Roosevelt, nicknamed "Sleepy Phil," who partially names the bill that ended American involvement in World War I.

ANSWER: Philander Chase **Knox**

[10] Because Knox had been in Congress when pay raises for Cabinet positions were passed, he was restricted from becoming Secretary of State by the Constitution's Ineligibility Clause. To circumvent that ineligibility he employed this device, in which he took a lower salary.

ANSWER: the **Saxbe fix**

[10] As Secretary of State, Knox worked to implement this policy, which encouraged US bankers to invest in foreign economies.

ANSWER: **Dollar Diplomacy**