

SUBMIT 2014: “sometimes referred to as Groper[citation needed]”

Packet by WUSTL, Haverford, and Bellarmine A

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Tossups

1. **One side during this war placed siege engines atop Jew’s Mount in one battle, while another battle in this conflict is the subject of a text by Aelred of Rievaulx that attributes a pre-battle speech to Walter Espec. One leader during this war travelled to Brian fitz Count’s castle after escaping a siege by walking across a frozen river in a white robe. During this war, the 70-year-old bishop Thurstan thwarted a Scottish invasion at the Battle of the Standard. Robert (*) of Gloucester, a commander in this war, was captured after the Rout of Winchester. The Treaty of Wallingford ended this war, and this war began after the death of William Adelin in the White Ship disaster. Also featuring the Battle of Lincoln, this war ended with one leader’s assurance of Henry II’s succession. For 10 points, name this civil war between the forces of Stephen of Blois and Empress Matilda.**

ANSWER: The Anarchy

2. **This painter paired the scenes of a man killing his parents and a man peering in on three destitute sisters in his work *Stories of St. Julian and St. Nicholas*. A skeleton lying on a tomb and the inscription reading “As I am now, so you shall be” appear at the bottom of one of his paintings; that work depicts Christ with the Virgin, St. John, and two donors. This student of Masolino painted several well-known frescoes for the Santa Maria del Carmine. One work of his shows a pink-clad angel with a sword following a tearful (*) Adam and Eve out of the Garden of Eden, while another painting by this artist shows a short skirted tax collector in orange and an apostle extracting coins from the mouth of a fish. For 10 points, name this early renaissance artist of *The Holy Trinity* who decorated the Brancacci chapel with *The Expulsion* and *The Tribute Money*.**

ANSWER: Masaccio (or Tommaso di Ser Giovanni di Simone)

3. **In one scene in this novel, a character claims to enjoy his new life too much to think about his former home. In this novel, the Fledgling Phoenix is killed in an ambush at the Valley of the Fallen Phoenix after switching horses with his master. Another character in this novel tosses his infant son on the ground after one of his generals had risked his life to save the baby. One character in this novel prays to the Big Dipper to relieve his illness but dies anyway at the (*) Wǔzhàng Plains, although he has a wooden statue of himself made to make his rival think he is still alive. Previously, that character supposedly summons the southeast wind and “borrows” arrows with straw boats to win the Battle of Red Cliffs. This novel begins with a rebellion led by Zhāng Jué and ends with Sīmǎ Yán establishing the Jin Dynasty. For 10 points, name this Míng Dynasty novel attributed to Luó Guànzōng.**

ANSWER: Romance of the Three Kingdoms (or Sānguó yǎnyì; or San-kuo yen-i; do not accept “Records of the Three Kingdoms” or “Sanguozhi”)

4. **The transient Theis solution is a way to analyze tests of these formations and includes an equation that equates drawdown to distance squared times storativity over four times transmissivity times time. When one of these lies above another, it is perched; those types of these formations usually occur in the vadose zone. They are confined or unconfined based on whether a layer prevents direct local recharge from the surface. (*) Flow rate in these is proportional to pressure drop over viscosity according to Darcy’s law. These formations are rarely formed of schist and granite because of those rocks’ low porosity and when they breach the surface, they form artesian wells. For 10 points, name these underground layers of rock which are full of water.**

ANSWER: aquifers

5. **This man became the leader of his group after killing the repeated arsonist of Tara, Aillen. This man**

invited Diarmuid to a boar hunt and refused to save him as he lay dying. This man may have been killed at the Battle of Gabhair while grieving his grandson Oscar, and his son supposedly fled the battle and relayed the story to the Bishop of Armagh. This figure's son was taken to (*) Tír na nÓg, where he lived for three hundred years, immediately transforming into an old man upon his return. Three sounds of this man's hunting horn will supposedly wake this father of Oisín ("aw-sheen") to defend his country. As a boy, this figure burned his fingers while helping his mentor Finnegas cook the Salmon of Knowledge. For 10 points, name this legendary Irish warrior and leader of the Fianna.

ANSWER: Finn MacCoul (accept either underlined name; or Fionn mac Cumhaill ("fin ma-kool"); or Finn McCool; or Fingal; or Deimne; or Find mac Cumail; or Finn mac Umail; do not accept "Cumhaill" ("kool"))

6. This man's father owned Deco Adhesive Products, and this man was recently filmed saying things like "he's hidin' here, I'm hidin' here" and "jah, mon" at a Steak Queen restaurant. This man wrote, "Thank you for helping the world!" in a condolence book for Nelson Mandela. This man was sued by Daniel Dale, and this man knocked Pam McConnell to the ground in an (*) "attack." This man declared that he had plenty of pussy to eat at home in response to allegations that he had been sleeping with a staffer, and he also accused a reporter of being a pedophile. Though a video has never surfaced, this man was accused of smoking crack on film. For 10 points, name this rotund, incompetent mayor of Toronto.

ANSWER: Rob Ford

7. This novel's narrator shoots photos of a young female model for an advertising campaign for Kitt'n Britches. At one point in this novel, the protagonist attempts to kill a deer, but freezes up after firing two of his four arrows and is unable to do so. One character in this novel haggles with the Griner Brothers and eventually gets them to drive several cars down to Aintry. At a store in this novel, one character engages in a banjo duet with an inbred (*) albino. In a famous scene in this novel, two shotgun-wielding men sodomize Bobby Trippe and make the protagonist perform oral sex, but they are driven off when one of them is killed by Lewis Medlock. For 10 points, name this 1970 novel about Ed Gentry's canoe trip on the Cahulawassee River in the backwoods of northern Georgia, written by James Dickey.

ANSWER: Deliverance

8. Lev Vygotsky criticized one of this man's theories by stating that syncretism is a useful means of experimentation, while David Elkind extended this man's concept of hypothetico-deductive reasoning to the imaginary audience and personal fable phenomena. This man collaborated with Bärbel Inhelder to ask the subjects of one study to identify a doll's perspective of three mountains. He posited that equilibration is the balance achieved between (*) accommodation and assimilation, processes used to organize knowledge into schemas. The subjects of this man's most famous theory realize object permanence during the sensorimotor stage and are less egocentric by the concrete operational stage. For 10 points, name this Swiss psychologist who created genetic epistemology and formulated a four-stage theory of child cognitive development.

ANSWER: Jean Piaget

9. Replacing a carbonyl in tetracarbonylnickel with a ligand and performing this technique can give electron donating ability; that technique was pioneered by Chad Tolman on phosphine ligands. Preparation for this procedure may involve grounding the sample into a potassium bromide matrix. Information on pi-backbonding in carbonyl complexes is often obtained using (*) Raman spectroscopy and this technique. In this technique, carbonyl compounds absorb at around 1700 inverse centimeters. This technique studies vibrational modes like wagging, rocking, and scissoring, and has a fingerprint region. For 10 points, name this form of spectroscopy that studies molecular vibrations with light having longer wavelengths than visible light.

ANSWER: IR spectroscopy (or infrared spectroscopy)

10. One law issued by this ruler was authored by Josef Azzoni. Preceded by a monarch who died from eating death cap mushrooms, this ruler was convinced by Abraham Mendel-Theben to intervene on behalf of fifteen Jews accused of hanging a child in Orkuta. One minister of this ruler attacked belief in vampires in his *Discourse on the Existence of Ghosts* and made hospital autopsies mandatory; that man was Gerard van Swieten. During this monarch's reign, William Haugwitz created the *Directorium* and the Prince of (*) Haunitz negotiated an alliance with France. This monarch's successor repealed her Robot Patent tax and passed the Patent of Toleration, and this daughter of Charles VI fought Prussia for control of Silesia in two wars. For 10 points, name this Austrian empress whose succession was ensured by the Pragmatic Sanction.

ANSWER: Maria Theresa Walburga Amalia Christina

11. This disease causes cleavage of chemokine receptor CXCR1 on neutrophils, which disables their antibacterial activity. A common test for this disease in newborns screens for elevated rates of immunoreactive trypsinogen. The mutation causing this disease confers a heterozygote advantage on its carriers in the form of increased resistance to tuberculosis and increased survival of cholera and typhoid. The most common mutation that causes this disease is (*) delta-F508, which is a deletion of phenylalanine on a certain transmembrane conductance regulator. That protein is a chloride channel, which is why a common symptom of this disorder is salty sweat. For 10 points, name this disorder characterized by thick mucus buildup in the lungs.

ANSWER: cystic fibrosis (or CF)

12. This author described the fictional Marquis de Lantenac's revolt against the Republic during the Chouannerie in his last novel *Ninety-Three*. A character created by this author rescues Ebenezer Caudray from a rock, which he later resigns himself to drown on after learning of Caudray's interest in his lover. This author's anti-guillotine stance compelled him to write the short novel *The Last Day of a Condemned Man*. In one of this author's novels, Sieur Clubin attempts to abscond with his employer's lost money and drowns when he is attacked by a large octopus, which later has its eyes gouged out by the lover of Deruchette, the Guernseyman (*) Gilliat. A character created by this author is loved by the poet Pierre Gringoire and is hanged after taking the fall for the attempted murder of Captain Phoebus, who was actually stabbed by the villainous Claude Frollo. For 10 points, name this author of *The Toilers of the Sea* and *The Hunchback of Notre Dame*.

ANSWER: Victor Hugo

13. In one book, he suggests that architects should employ their childlike reactions when designing buildings and targets the architect of the Fisher Building. This man protested the classical architectural style of the Columbian Exposition by designing a building with a massive foil-covered "Golden Door." In addition to the Transportation Building, he designed a red-brick building with two arches that is inlaid with terracotta in Owatonna. That building, the National Farmer's (*) Bank, is one of his namesake "Jewel Boxes." A frieze with bulls-eye windows is found below the cornice of his most famous building, a ten-story collaboration with Dankmar Adler. That building, found in St. Louis, is considered one of the first skyscrapers. For 10 points, name this architect of the Wainwright Building who said, "form follows function."

ANSWER: Louis Sullivan

14. An Anabaptist settlement in this colony was founded by Lady Moody. The Castello Plan and the Duke's Plan were maps made of a location in this colony by the surveyor Jacques Cortelyou. In response to the theft of some pigs, soldiers of this colony slaughtered Native Americans in the Pavonia Massacre. In this colony, the Council of Twelve Men was created during (*) Kieft's War, and this colony also fought the Peach Tree War. This territory surrendered to Richard Nicolls and switched hands in the Peace of Breda. A Director-General of this colony bought one of its islands for approximately \$24; that man was Peter Minuit. For 10 points, name this colony once ruled by the peg-legged Peter Stuyvesant, a territory centered on New Amsterdam in present-day New York.

ANSWER: New Netherlands (accept Nieuw Nederlandt, Nova Belgium, or Novum Belgium; do not accept "New

Holland”; probably do not accept “New Amsterdam” because all the clues are pretty clearly about a colony)

15. The first of these works compares men to a tree and evil people to “chaff driven by the wind.” Another of these works uses the metaphor of an iron rod smashing a potter’s vessel. One of these works explains that “we hung our harps” “on the poplar trees” and asks “how could we sing a song... in a foreign land?” The last of these works begins and ends with the same word of praise, and a non-canonical one of these compares Pompey the Great to a dragon. The speaker of another of these works asks that he might be (*) “cleansed with hyssop” and observes that “the bones you have broken shall rejoice.” The most famous of these works explains that “though I walk through the valley of the shadow of death, I shall fear no evil,” for “The Lord is my Shepherd.” For 10 points, name these one hundred fifty songs in the Bible, many of which are attributed to King David.

ANSWER: Psalms (or Tehillim)

16. During this man’s rule, Clinton Knox was kidnapped and held until this man released twelve prisoners. This ruler’s successor had all the pigs in his country killed in the PEPPADEP project. This leader almost provoked an invasion by Juan Bosch in one incident and had opponents tortured in Fort Dimanche. One of this man’s aides was known as “Vampire” for his massive exports of medical cadavers; that man was Luckner Cambrone. One propaganda piece depicts (*) Jesus saying “I HAVE CHOSEN HIM” while standing over this man. This dictator took power after the overthrow of Paul Magloire. After suffering a heart attack, this dictator turned on his ally Clement Barbot and tried to kill him by exterminating his nation’s black dogs. For 10 points, name this President for Life who employed the Tonton Macoute while ruling Haiti.

ANSWER: Francois “Papa Doc” Duvalier

17. A work of this type was written by Francisco Guerrero for five voices with responses by listeners. A setting of one of these pieces by Krzysztof Penderecki has twenty-four parts for the violin and draws from the *Improperia*. Oboes are paired with double flutes in a work of this type that begins with the chorale *Herr, unser Herrscher*. That piece of this type also includes the alto aria *Es ist vollbracht*, which focuses on the words of its central figure. In the most famous composition of this type, written for double choir, the alto aria (*) “Erbarme dich, mein Gott” is sung following Peter’s betrayal. For 10 points, name this musical work, which sets the Biblical text of the suffering and death of Jesus to music, such as Bach’s named for *St. John* and *St. Matthew*.

ANSWER: Passion and Death of Christ

18. A character in this story is described as having “married for love” which “turned to dust,” whose heart was “a hard little place that could feel no love.” That character proclaims that the rich lose their money, while those who are lucky have a constant supply. In this story, the protagonist’s mother receives a thousand pounds a year on her birthday, but the protagonist gives her the lump sum of five thousand pounds when she demands to have it. In this story, the protagonist’s house constantly echoes with unspoken cries of (*) “There must be more money!” The protagonist of this story dies of brain fever after falling to the ground and exclaiming the name “Malabar!”, from which he wins seventy thousand pounds on a fourteen-to-one bet. For 10 points, name this story, in which Paul obtains the victors of derbys from the titular toy, a work of D.H. Lawrence.

ANSWER: “The Rocking-Horse Winner”

19. These devices are generally covered with a hemispherical package which is designed to be perpendicular to their escape cones. These components suffer a loss of efficiency above ten to twenty milliamps, which was recently discovered to be caused by Auger recombination; that is their namesake (*) droop. Epoxy degradation and differentiated phosphor degeneration are methods by which these devices can fail. One variety of these devices uses either active matrix or passive matrix addressing schemes; that organic variety of these devices can be used in flexible displays. The frequency of these objects’ outputs is determined by the bandgap of the semiconductor that makes up a p–n junction; at that junction, electrons fall into holes to release photons. For 10 points, name these

diodes used in illumination.

ANSWER: **LED** (or **light-emitting diode**)

20. **This man argued that not even God can know all the digits of pi in demonstrating the senselessness of quantifying infinity. He criticized skepticism for trying “to raise doubts where no questions can be asked.” He also wrote that mathematics is a human invention and consists solely of extensions and intensions. This man compared one of his works to a ladder that must be (*) discarded after it is used, because it transcends the world and is therefore senseless. This man rejected private language because meaning only arises through the understanding of other people, as demonstrated in his beetle-in-the-box thought experiment. At the end of one work, he wrote, “Whereof one cannot speak, thereof one must be silent.” For 10 points, name this Austrian-born British philosopher and author of *Tractatus Logico-Philosophicus* and *Philosophical Investigations*.**

ANSWER: Ludwig Josef Johann **Wittgenstein**

21. **This poet wrote a poem expressing his love for “dear mariners” “in every leaf” of his book, hoping that he will “be read, / In full rapport at last” “in cabin’d ships at sea.” This poet wrote “a rude brief recitative / Of ships sailing the seas,” “a chant for the sailors of all nations,” and described the “vast similitude [that] interlocks all” while watching “the bright stars shining” in the poem “On the Beach at Night Alone.” In one poem, he described witnessing (*) “crowds of men and women attired in the usual costumes” as well as the “clouds of the west” and the “flood-tide below me” “face to face.” In one poem, he described how “the ship is anchor’d safe and sound, its voyage closed and done,” and how a certain president “lies, / Fallen cold and dead.” For 10 points, name this author of “O Captain! My Captain!” and *Leaves of Grass*.**

ANSWER: Walt **Whitman**

Bonuses

1. This man's namesake doctrine promised that Italian terrorists who took refuge in France during the Years of Lead would not be extradited. For 10 points each:

[10] Name this French president who ordered the bombing of the *Rainbow Warrior* and appointed Jacques Chirac as PM in 1986, thus beginning the first "cohabitation" period.

ANSWER: François Maurice Adrien Marie **Mitterrand**

[10] Mitterrand was a member of this left wing party whose most recent president, François Hollande, was elected in 2012.

ANSWER: French **Socialist** Party (or Parti **socialiste**, or **PS**)

[10] Mitterrand became president by defeating this centrist politician in the 198 election. This man lost popularity after he accepted a gift of diamonds from his buddy Jean-Bedel Bokassa.

ANSWER: Valéry Marie René Georges **Giscard** d'Estaing (or **VGE**)

2. The first piece written in this set is in C-sharp minor and appears in its composer's *Morceaux de fantaisie*. For 10 points each:

[10] Name these twenty-four pieces for solo piano by a certain Russian composer, one in each of the twenty-four keys. That one of these pieces in C-sharp minor opens with three fortissimo octave chords: A, G-sharp, C-sharp.

ANSWER: **preludes** by Sergei Vasilievich **Rachmaninoff** (accept equivalents; prompt on partial answer)

[10] This Rachmaninoff symphonic poem inspired by an Arnold Böcklin painting portrays the oars of Charon against the waters of the river Styx.

ANSWER: **Isle of the Dead**, Op. 29

[10] Rachmaninoff worked briefly with Michael Fokine on this three-movement orchestral suite, which has a *Non allegro* first movement with a lengthy alto saxophone solo that is his only composition for the instrument.

ANSWER: **Symphonic Dances**

3. One term used to describe these churches that is no longer used because of its derogatory connotations is Uniat. For 10 points each:

[10] Give this umbrella term for churches that use their own liturgies, but which recognize the authority of the Pope, just like the Latin Churches.

ANSWER: **Eastern Catholic** Church (do not accept "Eastern Orthodox Church" or "Orthodox Church")

[10] Among the largest Eastern Catholic Churches is the Melkite Greek Orthodox Church, the leaders of which hold this title also held by the leaders of the component churches of the Eastern Orthodox Church in locations such as Moscow.

ANSWER: **Patriarch**

[10] This Eastern Catholic Church is the predominant Christian denomination in Lebanon.

ANSWER: Syriac **Maronite** Church of Antioch

4. Identify some things from Nathaniel Hawthorne's short stories. For 10 points each:

[10] This character breaks off his engagement to Elizabeth after he begins to wear a garment that leaves only his mouth and chin visible and hung between "him and the world."

ANSWER: Reverend Mr. **Hooper** (prompt on "the minister")

[10] In this story, Aylmer brews a potion that will remove the title hand-shaped blemish from Georgiana's face, but once the blemish is removed, she perishes.

ANSWER: "The **Birthmark**"

[10] In this story, Reuben Bourne leaves his dying friend and marries his daughter, Dorcas, but later kills his son by Dorcas, Cyrus, in the same place he had left his friend before.

ANSWER: **“Roger Malvin’s Burial”**

5. It is often known as a stomach flu, despite having no connection to influenza. For 10 points each:

[10] Name this condition which sees both the stomach and small intestine become inflamed, resulting in diarrhea and vomiting.

ANSWER: **gastroenteritis** (prompt on “gastritis” or “enteritis”)

[10] Gastroenteritis is most commonly caused by this viral genus in the family *Reoviridae*. that is the most common cause of diarrhea in small children.

ANSWER: **rotavirus**

[10] Another form of gastroenteritis is traveller’s diarrhea, which is most commonly caused by the enterotoxigenic version of this bacteria closely related to *Salmonella*. It often causes food poisoning and occasionally spurs recalls of farm products.

ANSWER: **Escherichia coli** (or **E. coli**)

6. This neighborhood is bordered by Bushwick and Bedford–Stuyvesant. For 10 points each:

[10] Name this neighborhood of Brooklyn which contains the abandoned Domino sugar refinery. It also has notable Puerto Rican and Italian enclaves, although it is being gentrified by young white people.

ANSWER: **Williamsburg**

[10] Williamsburg is bounded to the south by this river. This river contains U Thant Island and is also spanned by the Williamsburg and Brooklyn Bridges.

ANSWER: **East** River

[10] Above Williamsburg, this northernmost neighborhood of Brooklyn is notable for its large Polish Community and straddles a namesake street.

ANSWER: **Greenpoint**

7. Nine ships which escaped this battle found refuge with Evagoras I of Cyprus. For 10 points each:

[10] Name this naval battle where the Spartan fleet of Lysander destroyed a force under Conon.

ANSWER: Battle of **Aegospotami**

[10] This city was defeated at Aegospotami, allowing Lysander to establish the Thirty Tyrants as rulers of this home of Pericles.

ANSWER: **Athens**

[10] After conducting the Phyle campaign, this Athenian leader managed to negotiate the withdrawal of the Thirty Tyrants and a return to democracy despite his loss at the Battle of Piraeus.

ANSWER: **Thrasybulus**

8. Empirical observations show that this constant is around 120 orders of magnitude smaller than predictions made by effective field theory methods. For 10 points each:

[10] Name this constant denoted capital lambda that appears in the Einstein field equations as the energy density of empty space.

ANSWER: **cosmological** constant

[10] The cosmological constant is paired with this type of dark matter in the most accepted standard model of cosmology. This type of dark matter is more massive and thus moves at sub-relativistic velocities.

ANSWER: **cold** dark matter

[10] One piece of evidence for dark matter is this cluster merger in Carina. Gravitational lensing on this cluster shows that the distribution of mass does not match the distribution of radiation in a famous image by Chandra.

ANSWER: **Bullet** Cluster (accept **1E 0657-558**)

9. It includes a scene where the protagonist dresses as a French hussar and enters the Battle of Waterloo. For 10

points each:

[10] Name this work which sees Clélia and the Countess Gina help Fabricio escape from prison after he kills the manager of his actress lover.

ANSWER: The Charterhouse of Parma (or La Chartreuse de Parme)

[10] *The Charterhouse of Parma* is a novel by this French author of *The Red and the Black*.

ANSWER: Stendhal (or Henri-Marie Beyle)

[10] In this novel, Stendhal's first, Octave de Malivert falls in love with the title character before leaving to go fight for Greek independence.

ANSWER: Armance

10. The actions of this animal provoke the prayer *Deh, tu reggi in tal momento*. For 10 points each:

[10] Name this animal, whose nest houses a silver spoon and a silver coin. Until it is found, Ninetta is imprisoned for suspected theft.

ANSWER: the thieving magpie

[10] *The Thieving Magpie* is an opera by this Italian composer. Count Almaviva tries to impress Rosina in his opera *The Barber of Seville*.

ANSWER: Gioachino Rossini

[10] In Rossini's opera *La Cenerentola*, Angelina works in the home of this count until she is set free by the fact that Prince Ramiro loves her, and not Clorinda or Tisbe.

ANSWER: Don Magnifico

11. In *The Birth of the Clinic*, this thinker discussed the medical gaze which dissociates the person's identity from his body. For 10 points each:

[10] Name this thinker who in that same book also discussed the modern narrative of medicine in which doctors will eventually end disease.

ANSWER: Michel Foucault

[10] Foucault's best known work is this one in which he contrasts the public execution of Robert-Francois Damiens with the Mettray prison colony. It traces the evolution of the penal system to the modern, "panopticon."

ANSWER: Discipline and Punish: The Birth of the Prison

[10] This other work was further explained in Foucault's *The Archaeology of Knowledge*. It begins with a discussion of Las Meninas, and it argues that different time periods considered different things acceptable as scientific truth.

ANSWER: *The Order of Things: An Archaeology of the Human Sciences*

12. One section of this work references *The Decline of the West* by Oswald Spengler. For 10 points each:

[10] Name this work which uses Nietzsche's concepts of the Apollonian and Dionysian to contrast the Native American tribes Zuni, Dobu, and Kwakiutl.

ANSWER: Patterns of Culture

[10] *Patterns of Culture* was written by this anthropologist who may be better known for characterizing Japan as a "shame culture" in *The Chrysanthemum and the Sword*.

ANSWER: Ruth Fulton Benedict

[10] Benedict collaborated with this other anthropologist on the pamphlet, "The Races of Mankind." This anthropologist focused on the Pawnee culture in her work *The Lost Universe*.

ANSWER: Gene Weltfish (or Regina Weltfish)

13. The transcripts of these recordings introduced the phrase "expletive deleted" to popular culture. For 10 points each:

[10] Name these recordings which contain an notable eighteen and a half minute gap that was ostensibly created by

a mistake of Rose Mary Woods.

ANSWER: **Watergate Tapes** (or **Nixon White House tapes**, accept anything indicating that these are recordings of the activities of Richard Nixon which were produced during the Watergate scandal)

[10] This man's attempts to subpoena the Watergate Tapes led to the Saturday Night Massacre, where both Elliot Richardson and William French Smith resigned rather than fire him.

ANSWER: Archibald **Cox**, Jr.

[10] The eighteen and a half minute gap in the tapes conveniently occurred during a discussion between Nixon and this White House Chief of Staff. This self-described "Nixon's son-of-a-bitch" suggested that his boss pardon the draft dodgers on the eve of his resignation.

ANSWER: Harry Robbins "Bob" **Haldeman**

14. This work claims that a certain method can teach us that "meaning in belated texts is wandering meaning, even as the belated Jews were a wandering people." For 10 points each:

[10] Name this 1975 work that analyzes the methods of thinkers like Isaac Luria and argues that they provide a model for modern literary interpretation.

ANSWER: ***Kabbalah and Criticism***

[10] This work by the author of *Kabbalah and Criticism* coins the term "School of Resentment" to describe traditions of criticism more concerned with political and social value than aesthetics. It includes the works of Shakespeare, Milton, Whitman and several other authors in the title group.

ANSWER: *The **Western Canon**: The Books and School of the Ages*

[10] This American literary critic wrote *Kabbalah and Criticism* and *The Western Canon*.

ANSWER: Harold **Bloom**

15. His namesake temple in Alexandria was destroyed by a Christian mob in 389. For 10 points each:

[10] Name this god created by Ptolemy I of Egypt intended to create a religious figure who could be worshipped by both Egyptians and Greeks.

ANSWER: **Serapis**

[10] Serapis was meant to combine the Apis Bull with the full version of this deity who was killed by his brother Set before his revival by his wife Isis.

ANSWER: **Osiris**

[10] This Greek equivalent to Horus was described as the son of Serapis. The god of silence, this figure represented the newborn Sun as was depicted as a child with a finger up to his mouth.

ANSWER: **Harpocrates**

16. This man made Shí Dákāi the "Lord of the Holy Lightning" and obeyed the commands of his subordinate Yáng Xiùqīng when the latter pretended to be possessed by the "Holy Father." For 10 points each:

[10] Name this man who died of food poisoning while besieged in Nánjīng, the leader of the Tàipíng Rebellion.

ANSWER: **Hóng** Xiùquán (or **Hóng** Rénkūn)

[10] Prior to the rebellion, Hóng converted to this religion partially because of the influence of Issachar Roberts. This religion was also promoted in China by men like Matteo Ricci and Francis Xavier.

ANSWER: **Christianity** (accept more specific answers like **Baptists** or **Catholicism**)

[10] Like the better known Dungan revolts, this other 19th-century rebellion was led by Chinese Muslims. Its leader, Du Wenxiu, styled himself as Sultan Sulayman and did a lot of opium until he was decapitated by Imperial troops.

ANSWER: **Panthay** Rebellion (accept **Dù Wénxiù** Rebellion before mentioned)

17. A straw-hat wearing figure in this painting points with a stick to the ravine at the center of this work. For 10 points each:

[10] Name this painting which shows William Cullen Bryant and one of the artists recently deceased friends

standing together on a rocky outcropping.

ANSWER: Kindred Spirits

[10] This artist commemorated his friend Thomas Cole in *Kindred Spirits*.

ANSWER: Asher Brown Durand

[10] Like Durand, this later painter did some work in New Hampshire's Pinkham Notch region, though this non-Thomas Moran artist is probably better known for painting landscapes of the Rocky Mountains and scenes of western expansion like *The Last of the Buffalo*.

ANSWER: Albert Bierstadt

18. These structures are composed of "two-force members," meaning they are only subject to tension and compression. For 10 points each:

[10] Name these structures made up of triangular units linked at nodes.

ANSWER: trusses

[10] If the structure is completely anchored so as to prevent movement, the sum of all forces equals this, as per Newton's second law.

ANSWER: zero

[10] If two times the number of joints equals the number of members plus the number of reactions, a truss will have this quality. This means that static equilibrium equations alone are enough to calculate all the unknown forces on a free body diagram.

ANSWER: statically determinant (prompt on "static")

19. In this novel, the title character attempts to create a relationship between Harriet Smith and Mr. Elton, a vicar. For 10 points each:

[10] Name this Jane Austen novel that details the eventual engagement of Harriet Smith to Robert Martin, the secret relationship between Jane Fairfax and Frank Churchill, and the marriage of George Knightley to the title woman.

ANSWER: Emma

[10] This work by Austen focuses on the life of Anne Elliot, as her cousin William Elliot plans to marry her to secure her family's estate at Kellynch Hall. However, she discovers his selfish motives and marries Captain Frederick Wentworth.

ANSWER: Persuasion

[10] In this novel by Austen, a carriage accident leads Mr. Parker to stay at the home of the Heywoods, where he explains his plan to modernize the title village with Lady Denham.

ANSWER: Sanditon

20. Answer some questions about crystal field splitting. For 10 points each:

[10] These orbitals on metal ions are subject to crystal field splitting. The spectrochemical series arranges ligands by how much they split these orbitals which come between p-orbitals and f-orbitals.

ANSWER: d-orbitals

[10] This hexadentate chelating agent forms coordination complexes with metal ions in a solution, and it can be used in complexometric titration to sequester aqueous cations.

ANSWER: EDTA (or ethylenediaminetetraacetic acid)

[10] EDTA is added to a buffer made of this compound and acetic acid to make a solution used in agarose gel electrophoresis.

ANSWER: tris base (accept THAM or tris(hydroxymethyl)aminomethane)

21. Sufferers from this disease see changes in personality before memory loss, which differentiates it from a similar condition. For 10 points each:

[10] Name this disease in which only one or two of the six forms of tau protein build up in neurons to form plaques

that are known as this disease's namesake bodies.

ANSWER: **Pick**'s disease

[10] Pick's disease is similar to this much better known neurodegenerative disease in which all six forms of tau protein form amyloid plaques that may be the cause of its symptom of memory loss.

ANSWER: **Alzheimer**'s disease

[10] Both Pick's disease and Alzheimer's disease cause degeneration in this lobe of the brain that lies below the lateral fissure between the two hemispheres of the brain. This lobe contains the hippocampus.

ANSWER: **temporal** lobe