

### Tossups

0. This instrument plays a descending glissando over one and a half octaves from a C to a G at the beginning of a song that states “You don’t get time to hang a sign on me.” This lead instrument introduces the Paul Young hit “Every Time You Go Away,” and opens a song that declares “Rover, wanderer, nomad, vagabond, call me what you will.” This instrument, featured in the openings of “Wherever I May Roam” by Metallica and “Don’t Come Around Here No More” by Tom Petty, plays the first solo in Steely Dan’s (\*) “Do It Again.” A song featuring the melody of this instrument was mashed up with “Tomorrow Never Knows” on the *Love* soundtrack. This instrument is featured prominently on “Love You To,” “The Inner Light,” and “Within You Without You,” which were all written by George Harrison. For 10 points, name this instrument played by George Harrison’s mentor, Ravi Shankar.

ANSWER: sitar <KG>

1. According to Pindar, this figure was the mother of Pan with Apollo, while some other sources list this woman as Pan’s mother with Hermes. An account of Pausanias reports that she was banished to the city of Mantinea by her husband, though Hyginus reports that she instead went to Aegaea and mothered Italus. As a child, this woman was saved from drowning by a family of seabirds after her parents Periboea and Icarius threw her into the water. The maid (\*) Melanthe reveals a ruse perpetrated by this woman to a group including Peisandros and Eurymachus; that ruse centered on a burial shroud for her father-in-law Laertes, which she wove by day and unwove by night. This woman was the mother of Telemachus and Queen of Ithaca during the period of the Trojan War. For 10 points, name this wife of Odysseus.

ANSWER: Penelope [or Penelopeia; prompt on “Ameirace” or “Arnacia” or “Arnaea”] <JM>

2. An important source for the historiography of this event is the instructions given to the nuncio Antonio Maria Salviati. Contemporary accounts of this event place much of the blame for it on Albert de Gondi and other Italian members of the court. This event greatly increased the popularity of an anti-monarchical movement called the Monarchomachs. The philosopher Petrus Ramus was killed in this event. This event ended the (\*) two-year period of peace following a treaty signed at Saint-Germain-en-Laye. It took place shortly after the marriage of Marguerite of Valois to Henry, King of Navarre, and two days after an assassination attempt on Gaspard de Coligny. For 10 points, name this 1572 massacre of Huguenots ordered by Charles IX and Catherine de Medici.

ANSWER: St. Bartholomew’s Day massacre <WN>

3. According to one story this man was incarnated twice as the emperor of Atlantis to aid the white magicians in their war against the black magicians. Ahmadis believe that this figure died in Kashmir while seeking the Lost Tribes of Israel. On one occasion this man makes a bird from clay and breathes on it so it becomes real “by Allah’s leave” and on another he asks God for “a (\*) table laden with food from Heaven.” On one occasion this figure says to another “Woman, why do you involve me? My hour has not yet come.” He tells a Samaritan woman at a well that she has had five husbands and that he could have given her living water, and on another occasion he tells a man to step out of a boat onto the water. For 10 points, name this man who walked on water and turned water into wine.

ANSWER: Jesus Christ [accept either underlined part; accept Isa] <BM>

4. One of the last steps in this process involves determining liveness by generating succ, gen, and kill sets. That step of this process can be performed by k-coloring an inference graph and “spilling” if the k-coloring

doesn't exist. The LLVM project provides an infrastructure for programs performing this process. Replacing function calls with their function during this process is called inlining, and tail recursion allows this process to reuse the current stack frame. This process often occurs after a (\*) preprocessor substitutes macros and expands included files, and it is followed by assembling and linking object files. Gcc performs this process which the Java Virtual Machine can optimize for native machine architecture by performing “just in time.” For 10 points, name this process in which programming language code is transformed to machine code.

ANSWER: compiling [or other word forms; prompt on register allocation or parsing] <BM>

5. A popular song named for this style of music features a bridge sometimes called a “tango” or “Spanish tinge,” made up of a dotted quarter, an eighth, and quarter, quarter notes. Performers of one song in this genre often mimic the barking of a dog and the crowing of the title “Little Red Rooster.” Early performers in this genre played a string instrument consisting of a piece of wire strung between two nails on a board over a glass bottle. These songs were usually built on a I, IV, V chord progression. W. C. (\*) Handy codified many conventions of this genre. This style lends its name to an extremely widespread “twelve-bar” chord progression. A “Crossroad” song in this style supposedly references the place where the artist sold his soul to the devil in exchange for mastery of the guitar. For 10 points, name this style of music popularized by Bessie Smith, B. B. King, and Robert Johnson, often tinged with melancholy.

ANSWER: blues [accept any subtype that mentions blues] <AG>

6. This author adopted the perspective of Kaspar Hauser in a poem that begins “I came here, calm, an orphan, my sole wealth my tranquil eyes.” This poet wrote of “those children’s voices in the dome!” in the last line of his sonnet “Parsifal,” which T. S. Eliot quoted in its original language in *The Waste Land*. He wrote of “charming maskers, masked shepherdesses” who “sing in a minor key / Of all-conquering love” in a poem that begins “Your soul is the choicest of countries.” The image “With long sobs / the violin-throbs / of autumn wound / my heart” begins this author’s poem (\*) “Autumn Song.” Faure and Debussy set his poem “Clair de lune” to music. The poems in his volume *Romances sans paroles* reflect his affair with a poet whom he once shot at in a drunken rage. For 10 points, name this French Symbolist poet of the *Poèmes saturniens* and lover of Arthur Rimbaud (“RAM-beau”).

ANSWER: Paul Verlaine [or Paul-Marie Verlaine] <AG>

7. The *Drosophila* gene Enhancer of zeste is responsible for carrying out one of these reactions using a conserved SET domain. Tudor and PHD domains have been shown to recognize the results of these reactions. The endonuclease MthH does not nick molecules with this modification. Paul Modrich found DNA mismatch repair recognizes defective strands by their (\*) lack of this modification. The anti-cancer drug Azacitidine removes these modifications which are propagated during replication by DNMT1. CpG islands are targets for this modification. Unlike histone acetylation, which always activates transcription, this modification can be activating or inactivating. For 10 points, name this chemical modification involving the addition of a CH<sub>3</sub> group.

ANSWER: methylation [accept adding methyl groups, or specifics like DNA methylation] <SD>

8. This country’s economy tanked following the 1966 collapse of its Intra Bank. After independence, this country was still dominated by a feudal elite called the zu’ama. The generically named “Islamic Jihad Organization” set off a truck bomb killing a number of French paratroopers in this country. In this country, Elie Hobeika authorized a Kataeb Party militia to massacre hundreds. In Operation Blue Bat, the United States intervened in this country, in the first application of the (\*) Eisenhower Doctrine, to assist Camille Chamoun. Habib Shartouni assassinated this country’s president-elect in 1982, leading Phalangist forces to carry out the Sabra and Shatila massacres following an invasion by Israel. For 10 points, name this country embroiled in a 1980s civil war during which a barracks housing American servicemen was bombed in the capital, Beirut.

ANSWER: Republic of Lebanon [or the Lebanese Republic; or al-Jumhuriyah al-Loubnaniyah] <WN>

9. The title character of a story by this author makes the toast “Here’s mud in your eye” as she swallows twenty tablets of veronal. This author wrote “They hail you as their morning star / Because you are the way you are” about the title group of a poem ending “They make me sick, they make me tired.” This author wrote that “three be the things I shall never attain: envy, content, and sufficient champagne” in the poem “Inventory,” published in the collection (\*) *Enough Rope*. This author wrote book reviews for *The New Yorker* under the byline “Constant Reader” and co-wrote the screenplay to *A Star is Born* with her husband Alan Campbell. This author wrote that “Razors pain you; Rivers are damp” in her poem “Resume,” which ends “Gas smells awful; you might as well live.” For 10 points, name this American poet, a member of the Algonquin Round Table known for her acerbic wit.

ANSWER: Dorothy Parker <AG>

10. This thinker described myths as “machines for the suppression of time,” a phrase which provides the title for a chapter of Edmund Leach’s guide to this man’s ideas. He introduced the concept of societies based on corporate bodies which hold wealth-based estates, which he called “house societies.” This anthropologist liked to analogize his theories to those in linguistics, such as Jakobson’s analysis of vowel and consonant systems and the theories of (\*) Ferdinand de Saussure. This anthropologist declared “I hate travelling and explorers” at the beginning of a memoir about his travels in places such as Brazil, where he studied the Bororo. A Bororo myth opens this man’s four-volume work of mythography beginning with the volume *The Raw and the Cooked*. For 10 points, name this structuralist anthropologist who wrote *Tristes Tropiques* and *Mythologiques*.

ANSWER: Claude Lévi-Strauss <WN>

11. The Latin phrases “FLA FUR BIS FLE” and “QUIS EST ISTE QUI VENIT” are inscribed on a bronze whistle in a story in this genre whose title comes from a song written by Robert Burns. The Duke of Cheshire marries Virginia and the stereotypically American Otis family outwits Sir Simon in a story parodying this kind of fiction, the first published work by Oscar Wilde. A story of this kind, “Oh, Whistle, and I’ll Come to You, My Lad,” was written by M. R. James. In a story of this kind, Spencer Brydon returns to his childhood New York City home on the (\*) “Jolly Corner.” The housekeeper Mrs. Grose becomes suspicious about the presence of Miss Jessel and Peter Quint while taking care of Miles and Flora in a famous example of this kind of story. For 10 points, name these stories, such as Henry James’s “The Turn of the Screw,” which feature supernatural beings.

ANSWER: ghost stories [prompt on “Gothic stories”; prompt on “horror stories”] <AG>

12. If these structures are alive, they stain deep red or orange in the tetrazolium chloride assay. In several species, these structures are attached to lipid-rich appendages called elaiosomes. The process of subjecting these structures to thermal or chemical stress to increase their permeability is called scarification, and the process of subjecting them to cold and moist conditions is called stratification. They are surrounded by a structure made up of the tegmen and testa, which develops from the (\*) integuments of their precursors. These structures travel through anemochory, hydrochory, and zoochory; or, by wind, water, and animals. Organisms can be classified as monocots or dicots based on whether these structures contain one or two embryonic leaves. For 10 points, name these structures surrounded by a nutritive coat, from which many plants germinate and grow.

ANSWER: seeds [or seed coats; accept plant embryos or similar answers on the first sentence] <AG>

13. This man’s killer remarked “There certainly wasn’t a bone in this wretched fellow” after luring him to a banquet in the palace of Ad Laurentum. Historians note this man’s unusually cordial relationship with the Pavian bishop Epiphanius given the fact that he was an Arian. This man’s brother Onoulphus led a campaign against the Rugian king Fredericus, and was killed by archers while hiding in a church during the Siege of (\*) Ravenna. This half-Scirian man invaded Dalmatia on a punitive expedition to find the killers of his nominal patron,

Julius Nepos, though he really owed his loyalty to Emperor Zeno. This man, who was murdered by Theodoric, offered a pension to the fifteen-year old son of Orestes whom he deposed. For 10 points, name this Germanic chieftain whose overthrow of Romulus Augustulus in 476 AD often marks the fall of the Roman Empire.

ANSWER: Odoacer <AG>

14. This artist showed a woman holding one of her children while the other is perched atop a beached boat as they wait for their father in the painting *Dad's Coming!* In another of his paintings, a uniformed man defiantly standing with his right hand on his hip is at the head of a group of captured soldiers being looked upon by Francis Channing Barlow. He made several depictions of people playing croquet. This artist's *A Visit from the (\*) Old Mistress* has a similar composition to a painting he made while working as a Civil War correspondent. This artist of *Prisoners from the Front* showed a man and three boys in a catboat called the *Gloucester* in his painting *Breezing Up*. In his best known work, sharks mass around a small fishing boat with a black man lying on the deck. For 10 points, name this painter of nautical scenes like *The Gulf Stream*.

ANSWER: Winslow Homer <WN>

15. Along with the world's oldest shoe, several artifacts for making this substance were discovered in Armenia's Areni-1 Cave. A company named Recanati is currently working with Ariel University to replicate varieties of this substance dating back from the time of Jesus. A riot over this substance began in the town of Damery a few years after a *Phylloxera* infestation caused a significant drop in its production. In 1985, Austrian producers of this substance were caught mixing (\*) diethylene glycol into it. Spain's La Rioja region and the Douro River valley are both well-known producers of this substance. During the 1976 "Judgment of Paris," American varieties of this substance were shockingly judged as superior to French ones. A Benedictine monk lends his name to a sparkling variety of this substance. For 10 points, name this product made from grapevines in Bordeaux and Champagne.

ANSWER: wine [anti-prompt on specific varieties, such as "port," "sherry," or "champagne"] <KG>

16. The transgender woman Chrissy Lee Polis was beaten at one of this organization's locations in 2011. This organization sued Helen Steel and Richard Morris, who had written a pamphlet critical of this organization as members of London Greenpeace, leading to a libel case which lasted ten years. In 1984, James Huberty killed 21 people at one of this company's locations in San Ysidro. An employee of this company in Mount Washington was forced to (\*) strip and perform sexual acts in a scam dramatized in the movie *Compliance*. Thomas Friedman put forth a version of the democratic peace theory stating that no two countries both home to this company have gone to war. Stella Liebeck sued this company after getting third-degree burns from spilling its coffee on her lap. For 10 points, name this fast food chain symbolized by the Golden Arches.

ANSWER: McDonald's <WN>

17. The title character of a novel by this author gets lost in Canada when his guide, Chew, dies of a fever, and appears to die in a duel when he impales himself on his opponent's sword. The two main characters of that novel by him are buried under the same stone in the American wilderness when the Indian servant Secundra Dass fails to revive one of them. One of his best known characters is based on his friend William Ernest Henley, and employs his African-born wife as a sort of accountant. The horses of revenue officers trample the evil blind man (\*) Pew in a novel by this author in which a page from Dick Johnson's Bible is torn out to make a Black Spot condemning the main villain. This author's most enduring characters include Billy Bones and Long John Silver. For 10 points, name this author of *The Master of Ballantrae* and *Treasure Island*.

ANSWER: Robert Louis Stevenson <WN>

18. An influential book on this concept was originally commissioned by the Quebec government as a report on the "exact sciences." That book on this concept argues that science is legitimated performatively by the

**“technological criterion” of efficiency. and argues that revolution should take place through a process called paralogy. A book on this concept, like its author’s later book *The Differend*, adapts Wittgenstein’s notion of (\*) language games. Another thinker argued that this concept is characterized by a crisis of historicity. This concept was defined as an “incredulity towards metanarratives” in a book subtitled “A Report on Knowledge.” It was described as “the cultural logic of late capitalism” by Fredric Jameson. For 10 points, name this concept, whose “condition” was written about by Jean-François Lyotard.**

ANSWER: postmodernity [accept word forms] <WN>

**19. The trio of the minuet of Haydn’s 96th, or *Miracle*, symphony features an extended solo for this instrument. In a D major sonata for this instrument, the outer portions of the second movement are marked *ad libitum*, allowing the performer to determine the tempo; that sonata for this instrument is Saint-Saens’s final work. This instrument plays a sad melody at the start of the second movement of Tchaikovsky’s fourth symphony. A D minor concerto for this instrument is the best-known work by Baroque composer (\*) Alessandro Marcello. It’s not the clarinet or viola, but Bach wrote a lot of music for the “d’amore” variant of this instrument. Mozart reworked his C major concerto for this instrument into his second flute concerto. Orchestras tune to the concert A played by this instrument. For 10 points, name this double reed woodwind instrument pitched a fifth higher than the English horn.**

ANSWER: oboes [or hautbois; or French hoboy if you’re a time traveler] <AG>

**20. In 1958, Sparnaay performed an experiment which was “not inconsistent with” a prediction of this man, but which had 100% uncertainty. This man names a set of operators which are elements of the center of a Lie algebra’s universal enveloping algebra. He predicted a quantity which can be derived by considering a quantum field in a conducting box and imposing that the box is transparent to high frequency modes, or by regulating the sum of the natural numbers from 1 to infinity. That prediction was verified to within 5% by Lamoreaux in 1996, and is equal to (\*) negative pi squared h bar c times area over 240 R to the fourth, or negative .013 over distance to the fourth dynes per square centimeter, and arises due to electromagnetic vacuum energy density. For 10 points, name this Dutch physicist who predicted a force between two parallel conducting plates in vacuum.**

ANSWER: Hendrick Casimir <BM>

**Tiebreaker: The Bechamp reaction was first used to synthesize a molecule with one atom of this element. Two methyl radicals are bound to this element in Agent Blue, also known as cacodylic acid. The extremophile GFAJ-1 was controversially thought to be able to incorporate this element instead of phosphorus when phosphorus starved, although that claim was later debunked. This element can be detected by reacting the sample of interest with nitric acid and (\*) zinc. This element forms a binary compound with gallium that can be used as a semiconductor. Detected via the Marsh test, this element appears in the drugs Atoxyl and Salvarsan, syphilis treating drugs developed by Paul Ehrlich. For 10 points, name this poisonous element with chemical symbol As.**

ANSWER: arsenic <SD>

MLK 2016: Amusing Subtitle  
Packet 6

## **Bonuses**

1. This philosopher proposed the use of “bridge laws” to connect different scientific fields. For 10 points each:  
[10] Name this philosopher of science who took an ahistorical approach to science in his book *The Structure of Science*.

ANSWER: Ernest **Nagel**

[10] Nagel was criticized by Thomas Kuhn, who used this term for the replacement of one scientific theory with an incommensurate one. According to Kuhn, the Copernican Revolution was one of these events.

ANSWER: **paradigm shifts** [prompt on **scientific revolutions**]

[10] Paul Feyerabend criticized the rigid form of this process, which involves formulating scientific hypotheses with testable predictions, and testing those predictions, among other steps.

ANSWER: **scientific method** <WN>

2. Ralph Pearson names a theory of these two classes of compounds where they are hard or soft. For 10 points each:

[10] Name these two kinds of compounds that exchange a proton in Bronsted-Lowry theory, but dissociate into hydrogen and hydroxide ions according to Arrhenius.

ANSWER: **acids** and **bases**

[10] In hard soft acid base theory, the Fukui function models electron density in one of these structures. Reactions of Lewis acids and bases involve an interaction of two of these structures to create a bonding one.

ANSWER: **molecular orbitals** [prompt on just **orbital**; do not accept “atomic orbitals”]

[10] Enthalpy changes in reactions of Lewis acids and bases are predicted by this semi-empirical equation, which describes acids and bases with parameters denoted E and C.

ANSWER: **Drago-Wayland** equation <SD>

3. The French love to theorize about navigating urban environments. For 10 points each:

[10] Walter Benjamin popularized Charles Baudelaire’s discussion of this figure, a man of leisure who strolls around the city. This term is a French word meaning “idler.”

ANSWER: **flâneur**

[10] Guy Debord and the Situationists encouraged this psychogeographical practice, in which you wander around a city and allow its contours to direct and otherwise affect you.

ANSWER: **dérive** [or **drift**]

[10] This sport, which involves getting through an environment in the fastest way possible, was developed in France. It was featured at the beginning of the movie *Casino Royale*.

ANSWER: **parkour** <WN>

4. This novel was originally supposed to have 21 chapters, symbolizing the maturation of the main character. For 10 points each:

[10] Name this Anthony Burgess novel, whose 21st chapter, in which Alex is redeemed, was cut from the American edition. In this novel, Alex and his droogs hang out at the Korova Milk Bar and engage in “ultra-violence.”

ANSWER: A **Clockwork Orange**

[10] The journal that published most of this author’s novel *The Gift* refused to publish its fourth chapter, a biography of Nikolai Chernyshevsky. He also wrote *The Real Life of Sebastian Knight* and created the poet John Shade.

ANSWER: Vladimir (Vladimirovich) **Nabokov**

[10] In a censored chapter from this novel, the protagonist confesses to the bishop Tikhon that he raped an 11-year-old girl, who hanged herself.

ANSWER: *The **Possessed*** [or ***Demons***; or *The **Devils***; or ***Besy***] <WN>

5. This character possesses “vaulting ambition, which o’erleaps itself / And falls on the other,” and later laments that “upon my head they placed a fruitless crown.” For 10 points each:

[10] Name this Shakespeare character who proclaims that “life’s but a walking shadow... a tale / Told by an idiot, full of sound and fury, signifying nothing,” upon being informed of the death of his sleepwalking wife.

ANSWER: **Macbeth**

[10] In Act II, Macbeth says that “mine eyes are made the fools o’ th’ other senses” after wondering whether this weapon that he sees in front of him is real or a “false creation, proceeding from the heat-oppressed brain.”

ANSWER: a dagger

[10] Because he feels that his job was incomplete since he left Banquo and Fleance alive when he killed Duncan, Macbeth tells his wife that his mind is full of these animals.

ANSWER: scorpions <AG>

6. The madman Daniel M’Naghten shot this man’s Personal Secretary, Edward Drummond. For 10 points each; [10] Name this politician who wrote the Tamworth Manifesto, on which many principles of the modern Conservative Party are based.

ANSWER: Sir Robert Peel

[10] Peel developed a set of ethical principles for this type of force. His reforms of this force in Britain, based in Scotland Yard, are way some of its members are now called “bobbies.”

ANSWER: police force

[10] Peel’s opposition to Catholic emancipation led to him being given this nickname, after a Protestant fraternal order based in Northern Ireland.

ANSWER: Orange Peel <WN>

7. This man angered his Nestorian wife Doquz Khatun by converting to Buddhism on his deathbed. For 10 points each:

[10] Name this conqueror who had Al-Musta’sim, the Abbasid Caliph, wrapped in a carpet and trampled to death by horses during his 1258 Siege of Baghdad.

ANSWER: Hulagu Khan

[10] This group surrendered their mountain fortress of Alamut to Hulagu Khan’s Mongols without a fight. This sect of Nizari Ismailis lent their name to the act of killing high-profile leaders.

ANSWER: Assassins [or Hashashin]

[10] This Nestorian lieutenant of Hulagu Khan continued the Mongol general’s conquests, but was defeated by a Mamluk army and killed at the Battle of Ain Jalut.

ANSWER: Kitbuqa Noyan <KG>

8. Cataclasite is the result of this process at regions of high strain, and it can produce foliation. For 10 points each:

[10] Name this process whose contact type can occur due to proximity to cooling igneous rocks and whose regional type can occur due to orogenic events.

ANSWER: metamorphism

[10] This type of fissile sedimentary rock may undergo contact metamorphism to form slate. The Burgess formation of this rock type in British Columbia is known for its exquisite preservation of Cambrian fauna.

ANSWER: shale

[10] A line marking the first appearance of one of these species is called an isograd. Metamorphic zones are classified by the presence of these species that indicate the metamorphic grade.

ANSWER: index minerals <BM>

9. The second theme of this piece is recapitulated with a famous clarinet duet. For 10 points each:

[10] Name this concert overture in which the opening bassoons, violas, and cellos represent the composer’s visit to a natural feature on the island of Staffa.

ANSWER: *The* Hebrides [or *Die* Hebriden; or *Fingal’s Cave*; or *Die* Fingalshohle]

[10] This Romantic German composer of *The Hebrides* is best known for his incidental music to *A Midsummer Night’s Dream*.

ANSWER: Felix Mendelssohn [or Jakob Ludwig Felix Mendelssohn Bartholdy]

[10] This Mendelssohn chamber piece in A minor establishes its cyclic form with a three note quotation of his song “Ist es wahr” that appears in all four movements.

ANSWER: String Quartet No. 2 [or Mendelssohn’s second string quartet] <AG>

10. The Olympics once held art competitions. For 10 points each:

[10] This small principality’s only Olympic medal to date was a bronze medal for architecture in 1924. This country on the French Riviera is home to Monte Carlo Casino.

ANSWER: Monaco [or Principality of Monaco]

[10] In 1924, Jack, a man with this surname, won a silver medal for his painting *The Liffey Swim*. His more famous brother wrote “The Circus Animals’ Desertion” and “The Tower.”

ANSWER: Yeats [accept Jack Butler Yeats or William Butler Yeats]

[10] This composer won a silver medal in the music competition in 1932. He composed the *Asrael Symphony* after the death of his father-in-law, Antonin Dvorak.

ANSWER: Josef Suk <KG>

11. This man grouped the “mystery in the essence,” “mystery in the word,” and “mystery in the mystery” as the Three Mysterious Gates. For 10 points each:

[10] Name this founder of a namesake school of Chán Buddhism, who is credited with saying “If you meet the Buddha, kill him.”

ANSWER: Linji Yixuan

[10] That aforementioned quote is one of these sayings, which were compiled into a text titled *The Gateless Gate*.

ANSWER: koans

[10] This other religion builds *torii* gates in front of shrines such as Itsukushima, where adherents worship *kami*.

ANSWER: Shinto <KG>

12. The opening of an exhibition of this artist’s work at the Iris Clert gallery was marked by the release of 1001 balloons in his trademark color. For 10 points each:

[10] Name this French artist whose performance piece *Zone of Immaterial Pictorial Sensibility* involved selling empty space in exchange for gold.

ANSWER: Yves Klein

[10] Yves Klein invented a hue of this color which he used in many of his works. A popular group of performance artists consists of men painted this color.

ANSWER: blue

[10] Klein’s exhibition of this name consisted of a gallery containing nothing but an empty cabinet. This word also appears in the name of a photomontage in which Klein jumps off of a wall.

ANSWER: The Void [or Le Vide] <WN>

13. The Niemann-Pick C1 cholesterol transporter is the leading candidate for the entry protein of the virus causing this disease. For 10 points each:

[10] Name this disease caused by a family of five filoviruses closely related to Marburg viruses. A large outbreak of this viral hemorrhagic fever happened in West Africa recently.

ANSWER: Ebola

[10] Because Ebola virus is sensitive to drying, it does not usually spread through these objects, such as door handles or bedding, that can transfer infectious organisms between individuals.

ANSWER: fomites

[10] This animal family is the leading candidate for the natural reservoir of ebola viruses. Most animals in this family do not communicate through echolocation.



ANSWER: Old World **fruit bats** [or **Pteropodidae**; or **megabats**; or **Megachiroptera**; prompt on “**bats**”; prompt on “**Chiroptera**”] <NC>

14. Answer the following about songs from the Civil War, for 10 points each.

[10] Julia Ward Howe wrote this song using music from the earlier tune “John Brown’s Body.” It begins “Mine eyes have seen the glory of the coming of the Lord.”

ANSWER: “The **Battle Hymn of the Republic**”

[10] This pro-Confederacy state song, based on a poem by James Ryder Randall and put to music by Jennie Cary, was sometimes called “the Marseillaise of the South.” It calls for soldiers to “avenge the patriotic gore” and contains the fateful phrase “Sic semper.”

ANSWER: “**Maryland, My Maryland**”

[10] Bands from both sides dueled the night before the Battle of Stones River in this state, before coming together and singing “Home! Sweet Home!” in unison. Earlier in 1862, Grant had earned the nickname “Unconditional Surrender” by capturing a fort in this state.

ANSWER: **Tennessee** <AG>

15. Along with Odin and Lodurr, this deity helped create the first humans Ask and Embla by giving them reason. For 10 points each:

[10] Name this Norse god, who was apparently really handsome, but also useless, because at councils he would just say “Let others decide” if his fellow hostage Mimir were not present.

ANSWER: **Hoenir**

[10] Because Hoenir was useless and annoying, Mimir was killed. This body part of his was sent back to the Aesir, and was eventually kept by Odin.

ANSWER: Mimir’s **head** [do not accept or prompt on any body part found on the head]

[10] Hoenir survives this apocalyptic battle of Norse mythology, and gains the gift of prophecy. Odin and Thor, along with many other gods, die during it.

ANSWER: **Ragnarok** <SD>

16. This novel’s title character tells his life story to Niketas Choniates after saving his life. For 10 points each:

[10] Name this novel about an Italian peasant who becomes the adopted son of Frederick Barbarossa and journeys to look for the kingdom of Prester John.

ANSWER: **Baudolino**

[10] *Baudolino* is by this novelist, who also wrote *The Name of the Rose* and *Foucault’s Pendulum*.

ANSWER: Umberto **Eco**

[10] Another 20th-century Italian novelist is this author whose many books to be turned into films include *Contempt* and *The Conformist*. He was married to the novelist Elsa Morante.

ANSWER: Alberto **Moravia** [or Alberto **Pincherle**] <WN>

17. Mercury can be used to make one of these objects which is closed when it is tilted the right way. For 10 points each:

[10] Name these elements which are closed if their contacts are touching and open if they are not. They are often used to turn things on and off.

ANSWER: **switches** [or **relay**]

[10] In this undesirable phenomenon, a large potential difference between contacts in an open switch allows current to jump across by ionizing the air between. A capacitor and resistor in series across the switch to prevent this is called a snubber.

ANSWER: electrical **arc** [or **arc** discharge]

[10] This is the minimum amount of current needed to keep a switch in working order. This current breaks through oxides that form on the surface of the contacts.

ANSWER: **wetting** current <BM>

*Note to moderator: Do not reveal alternate answers to the first part of this bonus.*

18. In the first of these chapters, a ruined boat maddens a creature like “the blood of grapes and mulberries cast before Antiochus’s elephants in the book of Maccabees.” For 10 points each:

[10] Name this set of three chapters, each corresponding to a day. The last of these chapters ends with a character yelling “From hell’s heart I stab at thee!” before anticlimactically getting his neck caught by a flying line and being dragged under the sea.

ANSWER: “The **Chase**” [accept, but do not reveal, chapters **133 to 135 of *Moby-Dick***; prompt on “the **last three chapters of *Moby-Dick***” or any other answers about the ending of *Moby-Dick*]

[10] “The Chase” precedes the epilogue of this Herman Melville novel, which begins “Call me Ishmael,” and is about Captain Ahab’s hunt for a white whale.

ANSWER: ***Moby-Dick***

[10] This Parsee harpoonist smuggled aboard the *Pequod* predicts that Ahab will see two hearses before his death. On the second day of the chase, Moby-Dick turns out to be the first hearse when this character’s corpse gets lashed to the whale’s back.

ANSWER: **Fedallah** <AG>

19. This period takes its name from a foreign title of the film *Marianne and Juliane*. For 10 points each:

[10] Name this tumultuous period of Italian history during which the Red Brigades kidnapped a former Prime Minister, Aldo Moro.

ANSWER: **Years of Lead** [or **Anni di Piombo**]

[10] The deadliest single attack during the Years of Lead targeted one of these locations in Bologna. In 2004, Islamic extremists bombed several of them in Madrid.

ANSWER: **trains** [or **train stations**; accept obvious equivalents]

[10] During the Years of Lead, Moro’s Christian Democrats met with Enrico Berlinguer’s Communists to form an alliance commonly known by this two-word term.

ANSWER: **“historic compromise”** <KG>

20. This artist painted a portrait of Bernardino Campi painting a portrait of her. For 10 points each:

[10] Name this Italian artist who depicted her sisters in *The Chess Game*.

ANSWER: Sofonisba **Anguissola**

[10] This other female Italian artist made a *Self-Portrait as the Allegory of Painting*, but is most famous for *Judith Beheading Holofernes*.

ANSWER: Artemisia **Gentileschi**

[10] This man painted a woman receiving a cup, which is either Artemisia receiving her husband’s ashes, or Sophonisba receiving poison. This Dutch master also painted *The Night Watch*.

ANSWER: **Rembrandt** Harmenszoon van Rijn <WN>

Extra: This opera, composed twenty years after Venetian immigrant Catterino Cavos’s work on the same subject, features Vanya’s third act song “When they killed the little bird’s mother.” For 10 points each:

[10] Name this historical opera by Mikhail Glinka about a patriotic hero’s sacrifice in the wake of an invading Polish army.

ANSWER: A ***Life for the Tsar*** [or ***Ivan Susanin***; or ***Zhizn’ za tsarya***]

[10] A *Life for the Tsar* paved the way for many Russian historical operas, such as *Boris Godunov* by this composer of *Pictures at an Exhibition*.

ANSWER: Modest Mussorgsky [or Modest Petrovich Mussorgsky]

[10] The Russians under Ivan the Terrible are the ones doing the invading in this Rimsky-Korsakov opera inspired by *A Life for the Tsar*, in which Ivan reveals that the title princess of the title city he is besieging is, in fact, his daughter.

ANSWER: *The* Maid of Pskov [or Pskovityanka] <AG>