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TOSSUPS:

1. **In one essay, this author asserts “the true poem is the poet’s mind; the true ship is the ship builder” before noting that man “dares not say ‘I think’” but instead “quotes some saint or sage.” This writer explicates the difference between understanding and reasoning in an essay that opens “the eye is the first circle.” This author compared himself to a (*) “transparent eyeball” that took in all of nature at once in a work advocating pantheism. This writer declared that books “are the best of things, well used; abused, among the worst” in an 1837 speech at Harvard calling for American intellectual independence from European modes of thought. For 10 points, name this Transcendentalist essayist who delivered “The American Scholar” speech and wrote “Self-Reliance.”**

ANSWER: Ralph Waldo Emerson

<TH, Other Lit>

2. **A “chinatown” trumpet solo opens the “Boulevard Night” movement of one of this composer’s works. This composer of *City Noir* wrote the piece *Hoodoo Zephyr* for synthesizer and sampler. A work for clarinet and chamber ensemble by this composer features recorded cow moos and is called *Gnarly Buttons*. This composer’s piece for two pianos, *Hallelujah* (*) *Junction*, is used in the film *Call Me by Your Name*. A post-minimalist orchestral work by this man was inspired by riding in a sports car. A “Foxtrot for Orchestra” called *The Chairman Dances* is often expected from an opera by this composer that depicts a state visit. For 10 points, name this American composer of *Short Ride in a Fast Machine* and *Nixon in China*.**

ANSWER: John Coolidge Adams [do not accept or prompt on “John Luther Adams”]

<JH, Music>

3. **Prior to her involvement in the Civil War, the USS *Water Witch* was involved in a diplomatic incident after being fired upon by a fort in this country. After discovering that his daughter had been prostituting herself, one leader of this country declared prostitution a noble profession that would be honored via the wearing of golden combs. In this country, an Irishwoman used her bare hands to bury her son and partner after their death during the (*) Battle of Cerro Corá. Eliza Lynch was the longtime mistress of this country’s president Francisco Solano López, who led his country during a war against a coalition of Argentina, Brazil, and Uruguay. For 10 points, name this South American country that was devastated following its loss in the War of the Triple Alliance.**

ANSWER: Republic of Paraguay

<TM, World History>

4. This is the first word in the title of a Giorgio Agamben book that discusses a figure who may be killed by anyone, but not ritually sacrificed, as an example of the “state of exception.” This is the first word in the title of a book arguing that play is a primary propagating factor of culture by Dutch thinker Johan Huizinga. This is the first word of a concept from game theory defined as a mythical perfectly-rational and self-interested creature. This non-English word proceeds (*) *sacer*, *ludens*, and *economicus* in the aforementioned examples, and also names a genus that contains species such as *florensis*, *ergastor*, and *erectus*. For 10 points, give this Latin word that translates as “human being,” and which, in the taxonomic name for humans, precedes “sapiens.” ANSWER: homo [accept Homo Sacer, Homo Ludens, or Homo Economicus; prompt on human, man, or humankind by asking for the word in the original language]

<TH, Mixed Social Science>

5. A general Kepler orbit is expressed as c divided by the quantity one plus epsilon times this function of the true anomaly. The potential energy for a simple pendulum is mgl times one minus this function of the angle between the pendulum and the vertical. The matrix that represents a counterclockwise rotation has this function along its diagonal. For inclined planes, the magnitude of the (*) normal force is equal to $m \cdot g$ times this function of the inclination angle. The horizontal component of a vector is equal to its magnitude times this function of the angle between it and the x-axis. For 10 points, name this function equal to adjacent over hypotenuse that is a 90° (“ninety degree”) phase shift away from sine.

ANSWER: cosine

<JS, Physics>

6. Late in life, the founder of this group translated an eleven verse work from the 16th century as *The Nectar of Instruction*. A shrine to this organization’s founder called the Palace of Gold is located in Marshall County, West Virginia. This group distributes translations of a certain religious text that is subtitled (*) “As It Is.” This organization’s Food for Life program provides free vegetarian meals to the needy. This organization was founded in 1966 in New York by Swami Prabhupada. Known for chanting a namesake mantra while playing instruments, this is, for 10 points, what Vaishnava Hindu organization that promotes a “consciousness” involving a blue-skinned avatar of Vishnu?

ANSWER: International Society for Krishna Consciousness [accept Hare Krishna Movement; accept Hare Krishnas; accept ISKCON]

<TH, Religion>

7. At the first of these events, one participant joked that he was seeking a specific job because “it’s indoor work, and there’s no heavy lifting.” After one of these events, one participant justified his usage of the phrase “we tried to kick a little ass last night,” referencing Geraldine Ferraro, by saying “My kids use it, everyone who competes in sports uses it.” At one of these events, Lloyd Bentsen delivered his famous quip (*) “Senator, you’re no Jack Kennedy.” While it didn’t feature Donald Trump nor Hillary Clinton, Elaine Quijano (“key-HA-no”) moderated a recent “incomprehensible” iteration of this event. Having featured men such as Dan Quayle, for 10 points, name this oft-ignored aspect of American politics, the most recent of which featured a heated Q & A sesh between Tim Kaine and Mike Pence.

ANSWER: Vice-Presidential Debate [prompt on debate with “That debate would be held between candidates for which position?”; do NOT accept or prompt on “Presidential Debate”]

<BK, American History>

8. In a black and white film from this country, a man known as the Metal Fetishist inserts a steel rod into his leg before cursing a businessman to morph into a walking pile of scrap metal. A director from this non-France country's New Wave directed a film in which the title "Boy" is forced to feign being hit by a car as a scam, and another in which a sex worker strangles a client called (*) *In the Realm of the Senses*. An earlier director from this country filmed most of his scenes from a static low angle and used "pillow shots" to bridge scenes in films like *Floating Weeds*. In that director's most famous film, an elderly couple travel to visit their ungrateful children in this country's capital. For 10 points, name this country home to Nagisa Oshima and Yansusari Ozu.

ANSWER: **Japan** [accept **Nippon**] (The first film is *Tetsuo, the Iron Man*)

<TH, Film>

9. In a 1770 *Inaugural Dissertation*, one thinker claimed this thing is not "objective and real, nor a substance" before claiming it "originates from the mind's nature [...] for coordinating." Though it is not air, Empedocles sought to explain the existence of this thing by noting that it was not expelled by a klepsydra. According to Kant, the existence of incongruent counterparts, like a (*) left or right hand, proves the independent existence of this thing. Ernst Mach and Leibniz both rejected the absolute form of this thing, focusing instead on its relational form. For 10 points, name this metaphysical property that involves the distance between objects, whose three-dimensions are combined with time in the theory of relativity.

ANSWER: **space**

<TH, Philosophy>

10. The p -adic valuation of this function of x is equal to the sum over k of (read slowly) the floor of x over p to the k in a formula named for Legendre ("luh-zhon-druh"). This function applied to n minus one is equivalent negative one mod n by Wilson's theorem. The Pochhammer symbol denotes the (*) rising extension of this function. The log of this function of x is approximately equal to $x \log x$ minus x , which is Stirling's formula. Terms in the Taylor series of the exponential function have this function in their denominator. The number of permutations of k elements from a set of size n is this function of n over this function of n minus k . For 10 points, what function that multiplies together all number from the input to 1 is denoted by an exclamation point?

ANSWER: **factorial**

<JS, Other Science Math>

11. A character created by this author finds out the answer to the question "do you have the password?" is simply "no" after spending several chapters trying to find a password for a locked computer. Much of a novel by this author is narrated from the inside of an antique car within the Musée des Arts et Métiers. Casaubon, Dio-tal-levi, and Jacopo invent a vast conspiracy theory called (*) "The Plan" in that novel by this author. Another novel by this author is organized according to monastic canonical hours and is narrated by the novice Adso of Melk. In that novel by this author, William of Baskerville investigates a series of murders at a medieval monastery. For 10 points, name this Italian author who wrote *Foucault's Pendulum* and *The Name of the Rose*.

ANSWER: Umberto **Eco**

<DG, Long Fiction>

12. While giving a speech in Iowa, this person said abolitionists “built the greatest infrastructure project this country has ever seen: the Underground Railroad.” The documentary *Street Fight* follows this politician’s unsuccessful mayoral campaign against Sharpe James. This vegan politician claimed to be having an “I am (*) Spartacus” moment when he went forward with questioning Brett Kavanaugh about confidential emails regarding racial profiling. This man became the first sitting senator to testify against another when he appeared in Jeff Sessions’s confirmation hearing. For 10 points, name this junior senator from New Jersey, a Democratic candidate for the 2020 presidential race.

ANSWER: Cory **Booker**

<JM, Current Events>

13. Beautiful red-and-white murals of a feasting couple were discovered in one of these things near the Bulgarian town of Kazanlak. Although mythically attributed to giants, the Nuragic (“noor-AH-jick”) civilization built many of the “gallery” form of these things on Sardinia. The Mycenaeans produced many of these things known as *tholoi*, which were compared to (*) beehives due to their shape. The Japanese *Kofun* (“KOH-foon”) period is named for a keyhole-shaped example of these things. The most widely accepted theory regarding how language spread outward from the Proto-Indo-European homeland is named for a type of these things called kurgans. Often topped by an earthen mound known as a tumulus, for 10 points, name these general locations where the remains of the dead are interred.

ANSWER: **tombs** [accept **graves**; accept **graveyards**; accept **cemeteries**; prompt on **valleys** with “What type of building in the valley?” before “Nuragic”; prompt on **mounds** with “What type of place was located under those mounds?”; anti-prompt on **mausoleums**, **crypts**, **sepulchres**, **necropoleis**, or other specific answers regarding places where dead bodies are naturally stored]

<TM, Ancient History>

14. A eight panel work by this artist includes a “Sorrowing Mother” in its top center and a depiction of Christ among the doctors in the top left. This artist of the *Seven Sorrows Polyptych* drew a study that juxtaposes a hand, and pillow, and the artist’s face. Another self portrait by this artist created ‘at the age of twenty-eight’ is noted for its resemblance to (*) Jesus. An image by this artist shows a lion and a dog lying down on the floor while a giant gourd hangs from the ceiling. A different woodcut by this artist depicts an anatomically incorrect Indian rhinoceros. For 10 points name this German artist of *St. Jerome and His Study*, which makes up his *Meisterstiche* (“my-STIR-stick-uh”) series of woodcuts along with *Melancholia I* and *Knight, Death and the Devil*.

ANSWER: Albrecht **Dürer**

<JH, Painting>

15. Although they have a lower sample throughput, the swing-bucket type of these devices is preferred over their fixed-angle type for rate zonal studies. The k-factor measures the efficiency of these devices whose protocols are given in R·C·F units. A Holweck drag pump seals the shaft of one type of these devices that uses a combination of a point bearing and a magnetic bearing; that type of these devices is named for (*) Zippe. Eppendorfs of equal mass must be oriented correctly around the rotor to ensure these devices are balanced. These devices separate the pellet from the supernatant, which can be pipetted out to remove impurities. For 10 points, what devices spin rapidly to separate substances by their density through their namesake “fictitious” force?

ANSWER: **centrifuges** [or **centrifugation**; accept **gas centrifuge**; accept **Zippe-type centrifuge**; anti-prompt on **rotors** with “What are the rotors a part of?”]

<JS, Chemistry>

16. A ruler of this region was routed by Stephen the Great of Moldavia at the Battle of Baia (“bah-EE-uh”). After being defeated at the battle of Southern Buh, a group was forced to move west and settle this kingdom after being attacked by the Bulgarian leader Symeon. Batu Khan sacked this kingdom’s largest city shortly after overwhelming their army at the Battle of (*) Mohi. Suleiman the Magnificent defeated forces from this kingdom under Louis II in the Battle of Mohacs (“MO-hots”). It not Croatia, but after his successful defense of Belgrade, Matthias Corvinus was elected king of this polity. This kingdom was ruled for 300 years by the Arpad Dynasty, which included its first king, Saint Stephen. For 10 points, name this central European kingdom settled by the Magyars.

ANSWER: Kingdom of Hungary [accept Kingdom of Magyars before read]

<TH, European History>

17. A collection of texts named for *Fleury* preserves some of the earliest French examples of these works, including ones created for Christmas and Easter. A set of these works named for the English towns of York and Coventry used wagons to elevate central figures. The nun Hroswitha created a series of these works based on the lives of the saints and earlier Latin examples of them. The anonymous Master of (*) Wakefield wrote a series of 32 of these works, the most famous of which is named for the Second Shepard. British works of this kind from the medieval era often adapted tales from the Bible and are divided into mystery, miracle, or morality types. *Everyman* is a medieval example of, for 10 points, what type of dramatic work?

ANSWER: medieval plays [accept dramas until ‘dramatic’; accept morality, mystery, nativity, or miracle plays]

<TH, Drama>

18. Charles Lummis was the head of one of these places in Los Angeles, the destruction of which by a 1986 fire was documented in a 2018 Susan Orleans book. In an oft-quoted line from *Dreamtigers*, Jorge Luis Borges claimed he always imagined paradise as a place of this kind. Joshua Prince-Ramus and Rem Koolhaas designed several glass and steel “floating platforms” for a location of this type in (*) Seattle. Between 1883 and 1929, the number of these places in the U.S. doubled largely because of donations by Andrew Carnegie. Two stone lions flank the entrance of the main branch of one of these places in Manhattan. For 10 points, name these institutions where the Dewey Decimal System is used.

ANSWER: library [accept public libraries]

<TH, Other Academic>

19. Guo and Kempthues discovered that both sense and antisense transcripts of *Z·C·22 c·D·N·A* inhibited the expression of *par-1* during the development of an organism in this phylum. Temperature-induced mutations to *daf-2* were shown to double the lifespan of an organism in this phylum by Cynthia Kenyon. In this phylum, muscle cells branch towards its four longitudinal (*) nerve cords. Fire and Mello first discovered R·N·A interference in this phylum, whose body cavity is not completely within the mesoderm. Like annelids, worms in this phylum have a tube within a tube digestive system. For 10 points, name this worm phylum that includes *C. elegans*.

ANSWER: Nematoda [or nematodes; accept roundworms]

<JF, Biology>

20. **Mount Livermore is the highest point on an island named for one of these things, which is separated from Belvedere by the Racoon Strait. One of these things named for independence tops a column on the Paseo de la Reforma in downtown Mexico City. Gateshead in Northern England is home to an enormous statue of one of these things by Andrew Gormley. One of these things names the largest Russian port on the (*) White Sea.** An island named for one of these things is located directly north of downtown San Francisco and contains a center that processed over a million immigrants. For 10 points, name these celestial beings that share a name with a Venezuelan waterfall that is the tallest in the world.

ANSWER: angels [accept archangels]

<TH, Geography>

21. **Jim Harbaugh broke his hand punching this man in the face, resulting in him being replaced by Peyton Manning. This man is the all-time USFL touchdown leader, opting to play for the Gamblers for three years despite being taken 14th in the NFL draft. This man ran the “K-gun” offense, named for Keith McKeller, and used that offense to throw 65 touchdowns to Andre (*) Reed.** This quarterback’s nephew was taken last in the 2017 draft and was released by the Broncos in 2018. Notable rival Dan Marino visited this man in the hospital in 2014 following this man’s cancer surgery. For 10 points, name this quarterback who, despite four consecutive attempts, never won a Super Bowl with the Buffalo Bills.

Answer: Jim Kelly

<BK, Pop Culture Sports>

22. **The Ogden Nash poem “Very Like a Whale” extensively mocks and questions the meaning of a line written by this poet. A character created by this poet rescues the Muslim girl Leila while serving in the Russian army. One of this author’s poems describes “the smiles that win” and “the tints that glow” that “tell of days in goodness spent.” A poem by this author describes a figure with “dew on his brow, and [...] rust on his mail” and begins by describing how an (*) “Assyrian came down like wolves on the fold.”** This author of “The Destruction of Sennacherib” attacked his rival Robert Southey in the preface to an epic poem about a notorious Spanish womanizer. For 10 points, name this British romantic poet of “She Walks in Beauty” and *Don Juan*.

ANSWER: Lord Byron [or George Gordon Byron]

<AS, Poetry>

23. **A version of this deity associated with the city of Saka is distinguished from his normal form by the presence of a feather in the symbol representing him. After Hesat anointed Nemty’s skin with her milk, it became an object known as this deity’s namesake fetish. According to the Jumilhac Papyrus, this god captured, branded and flayed the skin of a leopard-disguised (*) Set.** According to Plutarch, this father of Kebechet is the illegitimate son of Nephthys and Osiris. At this god’s cult center at Cynopolis, he was often conflated with Hermes for his role as a psychopomp. In a more well-known role, this god would feed souls to Ammit if they were heavier than a feather. For 10 points name this jackal-headed Egyptian god often associated with death and the afterlife.

ANSWER: Anubis [accept Anubis of Saka]

<JH, Mythology>

24. **The x-axis of the Kruithof curve displays the intensity of these things. Max Luscher conducted a test that attempted to link preferences for these things to personality. Studies by Paul Kay and Brent Berlin have found that the terms for these concepts in different cultures emerge in the same order. Opponent processing theory states that humans perceive these things in an antagonistic manner. The (*) Stroop effect is often demonstrated by asking people to identify this quality of a word rather than read it. The presence of cone cells in the retina allows humans to perceive, for 10 points, what component of vision determined by the wavelength of visual light?**

ANSWER: **colors**

<TH, Psychology>

BONUSES:

1. This person worked as a food scientist after graduating with a chemistry degree from Oxford, and worked on the consistency of soft-serve ice cream. For 10 points each:

[10] Name this leader whose father owned a grocery store and was the mayor of Grantham, England. This leader got a well-known nickname removing free milk from public schools.

ANSWER: Margaret **Thatcher** [accept “Milk-Snatcher **Thatcher**”]

[10] Thatcher negotiated this event with Deng Xiaoping, and included a 50 years limit on the “one country, two systems” policy in the territory in question. This event took place in July 1, 1997.

ANSWER: **Handover** of **Hong Kong** [accept anything that mention the transfer of sovereignty over **Hong Kong** from the United Kingdom to China]

[10] Thatcher did not let this other territory go as easily as Hong Kong, fighting a namesake war with Argentina over its sovereignty. Residents of this archipelago celebrate Margaret Thatcher Day on January 10th.

ANSWER: **Falkland** Islands [accept Islas **Malvinas**]

<LL, European History>

2. This non-rationalized unit system and Lorentz-Heaviside units both set epsilon-naught and mu-naught to zero. For 10 points each:

[10] Name this unit system in which electric fields and magnetic fields have the same units. This unit system removes many constants from equations that appear when they are written in SI units.

ANSWER: **cgs** system [accept cgs **electromagnetic** system; accept cgs **electrostatic** system; accept **Gaussian** system]

[10] In Gaussian units, the only constants in this set of equations are four pi and c. For example, the curl of the H field is equal to four pi times the current density over c plus one over c times the partial time derivative of D.

ANSWER: **Maxwell**'s equations

[10] Gaussian units leave out the factor of four pi in this law for the electrostatic force between point charges, so this law is just $Q_1 Q_2 / r^2$.

ANSWER: **Coulomb**'s law

<MM, Physics>

3. John Kani and Winston Ntshona co-wrote a play set in one of these locations with a much more famous author. For 10 points each:

[10] Name the setting of that play, in which two characters are forced to shovel each other's sand in a never-ending cycle. The play centers on their efforts to stage a version of *Antigone* in one of these places.

ANSWER: **prisons** [accept synonyms, such as **jails**; prompt on islands or *The Island* with “What type of building can be found on that island?”] (the play is *The Island*, by Athol Fugard)

[10] After falling for a Chinese woman who turns out to be a male spy in disguise, Rene Gallimard is incarcerated for espionage in this Chinese-American author's play *M. Butterfly*.

ANSWER: David Henry **Hwang**

[10] John Proctor's last hours prior to his execution are spent in a prison in this play set during the Salem Witch Trials by Arthur Miller.

ANSWER: *The **Crucible***

<TM, Drama>

4. Lady Charlotte Guest made a widely-read translation of this text in the mid 19th century. For 10 points each:

[10] Name this collection, whose first branch describes the deeds of Pwyll and his son Pryderi.

ANSWER: **Mabinogion** [accept Four Branches of the **Mabinogi**]

[10] The Mabinogion collects the myths of this country. The bard Taliesin also appears in a series of myths from this country.

ANSWER: **Wales** [prompt on the United Kingdom; prompt on Great Britain]

[10] The “Three Welsh Romances” contained in the Mabinogion are considered versions of stories associated with this legendary British ruler, who commanded the Knights of the Round Table.

ANSWER: King **Arthur**

<DG, Mythology>

5. In this situation, a highly rated insurer agrees to compensate a buyer in the event of a debt default by a debtor. For 10 points each:

[10] Name these financial situations, the lack of transparency of which was a major contributory to the 2008 financial crisis. Warren Buffett famously referred to the derivatives of these situations as “financial weapons of mass destruction.”

ANSWER: **credit default swaps** [or **CDSs**]

[10] The lack of public reporting of the tens of trillions of dollars held in credit default swaps led to a “systemic” form of this thing. In general, this term refers to the likelihood of macroeconomic conditions affecting an investment, and investors attempt to balance a portfolio to “manage” this thing.

ANSWER: economic **risk**

[10] This insurance company was a central figure in the financial crisis due to its dubious sales of CDS’s without collateral. It was bailed out by the government for 180 billion dollars, leading to 80 percent government ownership in 2009.

ANSWER: **AIG** [or **American International Group**]

<TH, Economics>

6. Answer some questions about the causative agent of Legionnaires’ disease. For 10 points each:

[10] *Legionella pneumophila* induces apoptosis in macrophages through L·s·p and Dot/I·c·m systems that regulate this process. Discovered in *A. tumefaciens*, type IV (“four”) systems for this process are evolutionarily related to complexes involved in conjugation.

ANSWER: **secretion** [accept type IV **secretion** systems; prompt on transport; prompt on translocation]

[10] *L. pneumophila* invades the body after being digested by macro-phages in these primary organs of the respiratory system.

ANSWER: **lungs**

[10] The Dot/I·c·m secretion system contributes to the formation of a special one of these organelles in which *L. Pneumo-phila* grows. A central one of these organelles is used for storage and maintaining turgor pressure in plant cells.

ANSWER: **vacuole** [accept central **vacuole**]

<JS, Biology>

7. A pamphlet subtitled “*What It Is and How To Fight It*” seeks to define the central characteristics of this political system. For 10 points each:

[10] Name this European political ideology characterized by the failure of democracy, forcing the government to unite with capitalists to violently repress workers through extra-parliamentary armed bands of the petty bourgeoisie.

ANSWER: **fascism** [do not accept or prompt on “social fascism”]

[10] The second section in Leon Trotsky’s *Fascism: What It Is and How To Fight It* is titled “How [this man] Triumphed.” Renzo De Felici wrote a massive biography of this Italian, who had earlier led the Blackshirts during a March on Rome.

ANSWER: Benito Amilcare Andrea **Mussolini** [accept *Il Duce* from Italian fascists]

[10] Within his work, *Blackshirts and Reds*, historian Michael Parenti rejected the thesis of this other historian, that capitalists in Spain weren’t the primary force behind fascism. This British Marxist wrote a renowned trilogy centered on the 19th century that includes *The Age of Revolution*, *The Age of Capital*, and *The Age of Empire*.

ANSWER: Eric John Ernest **Hobsbawm**

<JS, Other History>

8. To vocalists, this extended technique is known as overtone singing. For 10 points each:

[10] Name this extended technique in which an instrument that usually only produces one note at a time is able to play multiple notes at once.

ANSWER: **multiphonics**

[10] The first recorded use of multiphonics in recorded music came in Carl Maria von Weber’s concerto for this coiled brass instrument that takes its name from a European country.

ANSWER: French **horn**

[10] This woodwind instrument uses multiphonics in Luciano Berio’s *Sequenza Number 1* and numerous compositions by Ian Clarke. Other extended techniques for this instrument include beatboxing and the jet whistle.

ANSWER: **flute**

<JH, Music>

9. This nation’s namesake Phosphate Trust invested five million dollars in the flop musical *Leonardo: A Portrait of Love*. For 10 points each:

[10] Name this small Pacific island nation, that in the 1960s and 1970s had the highest GDP per capita in the world due to its bountiful phosphate deposits. It is the second least populous country in the world after the Vatican.

ANSWER: Republic of **Nauru** [accept **Pleasant Island**]

[10] Nauru now has the unfortunate distinction of being the country with the highest rate of this condition, with 61 percent of the population having it. It is defined as having a BMI greater than 30.

ANSWER: **obesity** [prompt on being overweight; prompt on synonyms like being fat]

[10] This nation about 1500 miles southwest of Nauru operates a controversial immigrant detention center there, which was opened under the administration of this country’s former prime minister John Howard.

ANSWER: **Australia**

<TH, Geography>

10. In this opera, the dying Violetta Valery receives a letter saying that Alfredo is on his way to her, though he will be too late to save her life. For 10 points each:

[10] Name this opera featuring the Act III aria “Addio del passato,” in which Violetta sings her goodbye to Alfredo.

ANSWER: *La Traviata* [accept *The Fallen Woman*]

[10] This Italian composer wrote *La Traviata* as well as *Rigoletto* and *Aida*.

ANSWER: Giuseppe Fortunino Francesco **Verdi**

[10] Verdi worked on the score for *La Traviata* while also composing this other masterpiece of his from the 1850s. This opera closes with the cabaletta aria “Di quella pira,” in which the hero exclaims that he will rescue his mother from burning at the stake.

ANSWER: *Il Trovatore* [accept *The Troubadour*]

<DG, Opera>

11. This historian called intellectuals without a specific area of knowledge “blah-blah generalists” before calling *New York Times* columnist David Brooks “garbage.” For 10 points each:

[10] Name this historian primarily affiliated with New York University, who died of ALS in 2010. His most notable book was *Postwar: A History of Europe Since 1945*, a comprehensive history of mid-to-late 20th century Europe.

ANSWER: Tony **Judt**

[10] Judt was an outspoken critic of this Middle Eastern nation, heavily criticizing its response to a flotilla of aid heading to the Gaza Strip. Jewish settlers from this country have occupied Palestinian land in the Golan Heights and West Bank.

ANSWER: State of **Israel**

[10] Many of Judt’s articles on Israel appeared in this semi-monthly magazine that primarily covers literature and cultural issues. This magazine published out of print works of literature in its NYRB Classics series.

ANSWER: The **New York Review of Books** [prompt on NYRB]

<JM, Modern World>

12. In his book *Treatise on Human Nature*, David Hume introduced this distinction, which describes the differences between normative and descriptive claims about the world. For 10 points each:

[10] Name this problem from philosophy, which posits the difference between facts and values. Hume believed that the former claims in this distinction were empirically verifiable, while the later were not, meaning the former cannot derive the later.

ANSWER: **is-ought** problem [or **is-ought** distinction; accept **Hume’s Guillotine**; prompt on, but do not otherwise reveal **naturalistic fallacy**]

[10] The is-ought problem is related to the “naturalistic” type of this error. In logic, statements described by this word render arguments invalid, and include ad hominem and the slippery slope.

ANSWER: **fallacy** [accept **fallacies**; accept **fallacious** argument]

[10] This New Atheist thinker attempted to use neuroscience to answer moral problems and clarify the is-ought problem in his 2014 book *The Moral Landscape*. He is considered one of the “four horsemen” along with Daniel Dennett, Richard Dawkins, and Christopher Hitchens.

ANSWER: Sam **Harris**

<TH, Philosophy>

13. A perennial Nobel contender who writes in this language used it to write the collections *A Time Between Ashes and Roses* and *A Grave for New York*. For 10 points each:

[10] Name this language used by the monosynomus Adunis. Another modern poet used this language in a poem titled "Identity Card," in which the speaker repeatedly notes that they have eight children.

ANSWER: **Arabic**

[10] This popular poetic form which originated in Persian verse has been used by English language poets like W.S. Merwin and Agha Shahid Ali. It consists of between five and fifteen sets of couplets that focus on love and longing.

ANSWER: **ghazals**

[10] Another widely-used form of Arabic poetry is the ruba'i ("roo-BUY"), which consists of poems with this many lines. Quatrains are poetic units of this many lines.

ANSWER: **four**

<TH, Poetry>

14. Self-taught engineer Percy Spencer built the first example of one of these devices after discovering that some photons from an active radar he was using melted the chocolate in his pocket. For 10 points each:

[10] Name these kitchen appliances that use dielectric heating to warm food. They release a non-ionizing type of radiation readily absorbed by water.

ANSWER: **microwave** oven [accept **microwaves**]

[10] The experimental film director Jim Incandenza kills himself by microwaving his head in this novel, which also features his sons Hal, Oren, and Mario.

ANSWER: ***Infinite Jest*** (by David Foster Wallace)

[10] The protagonist of this real-life director's film *Solo con Tu Pareja* ("so-low con two par-AY-ha") attempts to microwave his head after learning he may have AIDS. This Mexican director's 2018 film *Roma* won Best Foreign Language Film at the Oscars.

ANSWER: Alfonso **Cuarón**

<TH, Mixed Academic>

15. Sales of this book skyrocketed in 2005 when Ashley Smith read sections of it to her captor Brian Nichols, influencing him to release her. For 10 points each:

[10] Name this 2002 devotional book by evangelical author Rick Warren. It answers the question "What on Earth Am I Here For?" with sections on fellowship, worship, and ministry.

ANSWER: ***The Purpose Driven Life***

[10] *The Purpose Driven Life* has been accused of using eisegesis with regard to parts of the Bible that reinforce its message. Because of this it has been derogatorially referred to as advocating *this kind* of Christianity, in which individuals "pick and choose" doctrines which to follow, much like foods at one of these places.

ANSWER: **cafeterias** [accept **Cafeteria** Christianity]

[10] Rick Warren acts as a pastor at Saddleback, one of these institutions in Lake Forest California. These Protestant places of worship are usually defined as having 2000 or more attendees on a weekly basis.

ANSWER: **megachurches** [prompt on **church**]

<TH, Religion>

16. The Woodward-Hoffmann rules allow supra-facial thermal reactions of this type to proceed when the number of electrons in the two pi systems can be written as $4n + 2$. For 10 points each:

[10] Name this type of reaction described with a bracket notation that identifies the number of electrons in each reactant involved in the formation of the product. A [4+2] reaction of this type reacts a diene with a dienophile.

ANSWER: **cycloaddition** reaction [prompt on **pericyclic** reaction]

[10] The aforementioned [4+2] cyclo-addition is this reaction named for two German chemists.

ANSWER: **Diels-Alder** reaction

[10] The prototypical click chemistry reaction is the copper-catalyzed cyclo-addition of a terminal alkyne (“al kine”) and one of these compounds to form a 1,2,3-tri-azole. That C·u·A·A·C reaction involving these functional groups is used in the convergent synthesis of dendrimers.

ANSWER: **azides** [accept **N·3-** (“N three minus”)]

<JS, Chemistry>

17. These agreements may be multilateral when agreed upon by many states, or bilateral when they are made between two states. For 10 points:

[10] Name these sources of international law that include one named for Nuclear Non-Proliferation adopted in 1967 and the Kyoto Protocol on global warming, which has not been ratified by the United States.

ANSWER: **treaties** [accept multilateral or bilateral **treaty**; prompt on **contract**]

[10] This is the term for formal declarations made by a state indicating that certain aspects of a treaty would not apply to that state.

ANSWER: treaty **reservations**

[10] International law not codified by treaties is described by this word. International law of this type is a set of long established, obligatory norms, like not attacking unarmed fishing boats from another nation, or the right to defend land against an invading nation.

ANSWER: **customary** international law [accept **custom**]

<TH, Political Science>

18. For 10 points each, answer some questions about early novels:

[10] Along with Apuleius’s *The Golden Ass*, this novel by Petronius is one of the few largely extant Roman novels. A lengthy scene from this novel depicts the feast of the nouveau-riche freedman Trimalchio.

ANSWER: *The **Satyricon***

[10] In the early novel *A True Story* by Roman-Syrian author Lucian of Samosata, a gang of adventurers get swept up by a whirlwind and are transported to this place.

ANSWER: the **moon** [accept answers indicating Earth’s **Moon**; accept **Luna**]

[10] The Arabic novel *Philosophus Autodidactus* was written by Ibn Tufail in the early 12th century. Scholars speculate that it may have influenced this Daniel Defoe novel since it focuses on a boy growing up on an isolated island.

ANSWER: ***Robinson Crusoe***

<JH, Long Fiction>

19. Two days prior to this event, its central figure broke two ribs in a horse riding accident, hiding his injury from all but his coworker Jack Ridley, who helped to seal his hatch through the use of a broom handle. For 10 points each:
[10] Name this 1947 event, accomplished with an orange craft known as the X-1 *Glamorous Glennis*. Following this event, its central figure was also the first American to pilot an MiG-15 (**mig-fifteen**) after No Kum-Sok defected to South Korea.

ANSWER: Chuck **Yeager**'s breaking of the **sound barrier** [accept **Yeager**'s **supersonic** flight; accept other descriptive answers that mention **Yeager**, and in some way him surpassing the **speed of sound**; prompt on answers of the correct action, but don't mention **Yeager** with "Who first accomplished that action?"]

[10] Two brothers of this last name, Orville and Wilbur, also made aviation history when they sustained the first controlled flight of a heavier-than-air airplane at Kitty Hawk, North Carolina in 1903.

ANSWER: **Wright** [accept the **Wright** Brothers]

[10] A B-50 known as *Lucky Lady II* was the first airplane to make a nonstop flight around the world. The B-50 model, and its structural predecessor, the B-29, were both commonly referred to by this nickname to distinguish them from the earlier B-17.

ANSWER: Boeing B-50 **Superfortress** [accept Boeing B-29 **Superfortress**; do NOT accept or prompt on "Flying Fortress" or "B-17"]

<DG, American History>

20. A speaker of a poem about these people wonders "were we led all that way for Birth or Death?" before describing returning "to our palaces, these kingdoms [...]. With an alien people clutching their gods." For 10 points each:

[10] Name these "wise" people whose "gift" titles an O. Henry story where a couple sells their watch and hair only to end up buying their partner an accessory for the thing they sold.

ANSWER: The **Magi** [accept Three **Wise Men** or Three **Kings**; accept "The Gift of the Magi"]

[10] "The Journey of the Magi" is a religious poem by this American poet, who also discussed the torments of his conversion to Anglicanism in "Ash Wednesday."

ANSWER: Thomas Stearns **Eliot**

[10] Three female Magi appear in "Mrs. Herod," a poem from this British Poet Laureate's collection *The World's Wife*. She also wrote about a dissatisfied model in "Standing Female Nude" and about Shakespeare and his wife in "Anne Hathaway."

ANSWER: Carol Ann **Duffy**

<TH, Mixed Lit>

21. Daniel Defoe worked on a version of this scale before its namesake standardized it in 1805. For 10 points each:

[10] Name this empirical meteorological scale that derives a certain property from observations of land and sea conditions, such as wave height. A warning flag consisting of two red squares each with a black square inside of it is used when this scale's namesake number takes on its maximum value of 12.

ANSWER: **Beaufort** ("bough-furt") scale [accept **Beaufort** number]

[10] The Beaufort scale determines this value without the use of an anemometer ("A-neh-moh-meh-ter"). The magnitude of this value defines the category of hurricanes in the Saffir-Simpson scale.

ANSWER: **wind speed** [accept sustained **wind speed**; prompt on partial answer]

[10] Another empirical meteorological scale is the Fujita scale, which measures the intensity of these events. These rotating columns of air occur a lot in their namesake "alley".

ANSWER: **tornados** [accept **twisters**, **whirlwinds**, or **cyclones**; accept **sharknados**; prompt **cyclones**]

<TH, Other Science Earth Science>

22. Natalie Zemon Davis's 2016 article "Regaining Jerusalem" described the life of David Cohen Nassy, an immigrant to the New World who helped to regulate this modern-day country's Jewish community of *Jodensavanne*. For 10 points each:

[10] Name this South American country that was captured from the English by Abraham Crijnssen ("KRIN-sin") in 1667. The Moiwana Massacre was executed in this relatively-small country by its president and leader of the *Megacombinatie* ("MEH-ga-COHM-been-AH-tec-ay"), Dési Bouterse ("DAY-see boo-TAYR-say").

ANSWER: Republic of **Suriname** [accept *Ripoliku Sranan*]

[10] Following its capture by Crijnssen, Suriname spent over 300 years as part of the empire of this modern-day country. Following a 1581 revolt to receive independence from Spain, this country was led by numerous kings named William from the House of Orange.

ANSWER: **Netherlands** [prompt on *Dutch Empire*]

[10] The Dutch also had a little bit of influence in the rest of South America, primarily via an expedition where Hendrik Brouwer was sent to capture the Spanish gold mines within this country's modern-day city of Valdivia. Small Dutch populations still remain in this country's Araucanian province.

ANSWER: Republic of **Chile**

<TM, World History>

23. Answer some questions about robots in science fiction for 10 points each:

[10] This author outlined the "Three laws of robotics" in his novel *I, Robot* and penned the *Foundation* Series.

ANSWER: Isaac **Asimov**

[10] This book series features Marvin, a super depressed robot. Books in this series include *The Restaurant at the End of the Universe* and *So Long, and Thanks for All the Fish*.

ANSWER: *The **Hitchhiker's Guide** to the Galaxy*

[10] This author wrote about a vampiric robot in his story "The Stainless Steel Leech" which is part of the collection *The Last Defender of Camelot*. He is best known for his series of fantasy novels *The Chronicles of Amber*.

ANSWER: Roger **Zelazny**

<JH, Pop Culture Other>

24. A painting from this dynasty known as *Hundreds of Birds Admiring the Peacocks*, and is a masterpiece of the Birds and Flowers school. For 10 points each:

[10] Name this Chinese dynasty during which the painters Qiu Ying and Yin Hong lived. A style of blue and white porcelain from this dynasty was often imitated in Europe.

ANSWER: **Ming** Dynasty

[10] Most Ming-era paintings were either done on walls, on album sets, or on these objects. Hanging examples of these objects were mounted on walls and read vertically while "hand" examples of them were viewed from right to left as they were unrolled.

ANSWER: **scrolls** [prompt on *paper*]

[10] The Song Dynasty artist Zhang Zeduan created undoubtedly the most famous Chinese scroll painting, which is an extremely long painting titled for events happening along the river during this festival.

ANSWER: **Qingming** Festival [accept *Qingming Shanghe Tu*]

<TH, Painting>