

Michigan Winter Tournament

"The Holy Roman Empire of Tournaments"

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Packet 5

Tossups:

1. *Description acceptable.* A 2014 paper found that this landmass was likely the original homeland of the common ancestor of the purported Dené-Yeniseian language family. Human remains found at the Upward Sun River site represent a population native to this landmass, which was also the site of a namesake population "standstill." This landmass was the easternmost extent of the mammoth steppes, and eastward migration from it was enabled by the melting of glaciers on the (*) Pacific coast. The Chukotka and Seward Peninsulas were once part of this landmass, the majority of which now lies under either the Chukchi Sea or its namesake body of water. For 10 points, identify this landmass that enabled the human settlement of the Americas and formerly linked Alaska and Siberia.

ANSWER: **Beringia** [or the **Bering land bridge**; accept any answers indicating a **land bridge** between **Siberia** or **Russia** or **Asia** and **Alaska** or (North) **America** or similar, prompt on answers indicating a **land bridge** without identifying the location, prompt on **Siberia** or **Alaska** by asking "what landmass are they a part of?"] <Thompson, Geography>

2. In a prose poem set in one of these locations, a "feeble-minded" girl named Kati Sentry, who makes gloves out of ants, doesn't understand "what a quota is, or a command." Interviews with the poet Oskar Pastior about his time in one of these locations inspired the title of Herta Müller's *The Hunger Angel*. Eugenia Ginzburg's time in one of these locations inspired her memoir *Journey into the (*) Whirlwind*. In a novella set in one of these places, a man nicknamed "the Baptist" is part of Gang 104, a group of *zeks* who work in one of these locations. For 10 points, name this location where *One Day in the Life of Ivan Denisovich* is set, which also names an "archipelago" described by Alexander Solzhenitsyn.

ANSWER: **gulags** [or a **concentration camp** administered by **Romanian** people; or a Romanian **prison camp**; or a Romanian **labor camp**; or a Romanian **work camp**; or a **concentration camp** administered by the **Soviet** Union; or Soviet **prison camps**; or Soviet **labor camps**; or Soviet **work camps**; or *The Gulag Archipelago*; prompt on **concentration camps** by asking "the camps were administered by what country?"; prompt on **camps**; prompt on **prisons**; do NOT accept "concentration camps administered by Nazi Germany" or similar, non-Soviet or non-Romanian answers] <O'Rourke, European Literature>

3. James J. Heckmann and others have studied the heterogeneous returns to this variable based on the self sorting of individuals. One book asks questions like why people rejoice when an opportunity to increase this economic variable is canceled and that there is a "ubiquity of useless" versions of this quantity. That book is Bryan Caplan's *The Case Against [this quantity]*. In addition to years of experience and experience squared, the log wage is equal to a linear combination of this quantity in the (*) Mincer earning function. The premium associated with a specific increase in this quantity may be caused by signaling or, according to economists like Gary Becker, human capital accumulation. For 10 points, identify this quantity which can lead to productivity growth after an individual attends college.

ANSWER: **education** [accept obvious equivalents such as **years of schooling** or **college education**; prompt on **human capital accumulation** before mention] <Bunker, Economics>

4. An "ad hoc fast" way of modeling this process uses a Gaussian exclusion function that is integrated over the volume of a specific group. When Langevin dynamics instead of Hamiltonian dynamics are used to model this process, the collision frequency is often decreased to increase search speed. In one method of modelling this process, the change in Gibbs free energy is proportional to charge squared divided by effective ion radius times quantity 1 minus the reciprocal of (*) dielectric constant; that equation is named for Max Born. A quantity that describes a species' tendency to undergo this process is the product of the concentrations of its constituent ions and is written k_p ["k sub s-p"]. When electrolytes undergo this process, they can produce a conductive solution. For 10 points, name this process in which a solid dissociates in a solvent.

ANSWER: **dissolving** [accept word forms like **dissolution** or **solvation**; accept "going into solution" before mention] <Bunker, Chemistry>

5. Forces in this colony known as *mambises* ["mahm-BEE-sace"] performed the first cavalry charge using machetes, which became their primary weapon under General Máximo Gómez. Lewis and Arthur Tappan were instrumental in arranging legal aid and tutoring for a group of slaves who mutinied off the coast of the colony. A failed filibuster in this colony aided by Colonel William Crittenden was led by Narciso Lopez, whose forces would carry its post-independence flag. The US Supreme Court ruled in favor of a group of (*) Mendean slaves who mutinied in this colony in the case *US v. Amistad*. US troops remained stationed in this colony shortly after it achieved nominal independence under the terms of the Platt Amendment. The USS Maine exploded off the coast of, for 10 points, what colony, which achieved independence after the Spanish-American War.

ANSWER: Captaincy General of **Cuba** <Laurie, American History>

6. This region's still-extant "theological" ability to recognize the "whole man" allows it to write about freaks according to an essay in *Mystery and Manners*. Two sisters in a story set in this region mock a flesh-colored kimono-wearing man who drinks chemicals every Fourth of July. An author from this region argued that those outside of it call any literature from it "grotesque... unless it is grotesque, in which case it is going to be called realistic." The protagonist of a story set in this region questions if her sister's allegedly adopted child can (*) speak; she later moves away when Stella-Rondo turns her family against her. After a car accident, the characters of a story set in this region are approached by The Misfit, who shoots The Grandmother. For 10 points, Flannery O'Connor's "A Good Man is Hard to Find" exemplifies a "Gothic" style named for what American region.

ANSWER: The American **South** [The second clue refers to "Why I Live at the P.O."] <Laurie, American Literature>

7. In one essay on denying a form of this concept, a philosopher argued that the "kernel" of this concept is "generation" and that denial of it does not imply the annihilation of a substance. Another philosopher argued that this concept is the reason we do good to those who rely on us and relates this concept to why people martyr themselves for religion. An essay titled for this concept argues that self-consciousness is a person's awareness of this concept and posits the three (*) freedoms relating to realms of the physical, intellectual and moral. Music is a copy of the world's version of this concept according to Arthur Schopenhauer. A successor used this concept to argue that people seek out positions in which they can utilize force or *Kraft*. For 10 points, name this metaphysical concept inherent to humans which Nietzsche said humans use to strive for power.

ANSWER: **will** [or der **Wille**; or *The World as Will and Representation* or "On the Freedom of the **Will**"; or **will** to power or der **Wille** zur Macht; or **free will** or **will to live** or **Wille** zum Leben] <Bunker, Philosophy>

8. Johann Pachelbel's works in this genre are unique in that they feature no sections of imitative counterpoint, and consistently use long pedal points. It's not a partita, but meditative *affetti* sections alternates with fast-running *passaggi* sections in Girolami Frescobaldi's two books of pieces in this genre. This genre titles the final movements of Widor's fifth organ symphony and Ravel's *Le (*) Tombeau de Couperin*. A long mordent on A followed by a descending D minor scale opens one organ piece in this genre. Popular in the Baroque era, this fast-moving type of work for showing off virtuosity came from the Italian word for "touch." For 10 points, name this genre paired with a fugue in a famous D minor work by J.S. Bach.

ANSWER: **toccata** <McMaken, Classical Music>

9. *Description acceptable*. This action is performed by a group of sailors led by Noah's granddaughter Cessair before they all died except for one man, who eventually turns into a bird and lives for five thousand years. Amergin magically calms the wind to enable the last of six instances of this action recounted in a pseudo-historical book named for them. The Fir Bolg left Greece to perform this action, which brought them into conflict with the native (*) Fomorians. The Tuatha Dé Danann successfully performed this action before themselves becoming the victims of it and being driven into the Otherworld by the ancestors of the Gaels. For 10 points, identify this action performed in real history by England, in which a certain Celtic island is the subject of a military expedition.

ANSWER: **invading Ireland** [accept anything indicating the **settlement** or **colonization** or **invasion** of **Ireland**; prompt on **going to Ireland**; prompt on answers indicating an **invasion** or **colonization** by **asking** "of where?"] <Thompson, Mythology>

10. In 1982, this country's economy crashed following the crash of its unofficial stock market, Souk Al-Manakh. In 1953, this country became the first country to establish a Sovereign Wealth Fund. Before it was revealed she was the daughter of this country's ambassador to the US, Nurse Nayirah testified on behalf of US protection of this country. This country, which has been ruled since its inception by the Al-Sabah family, had its modern borders defined following a conflict with the (*) Ikhwan. This country was invaded during a conflict spurred partially by conflict over drilling in the Ramaila oil field. Forces leaving this country were shelled on the "highway of death" in a war where coalition forces were led by Norman Schwarzkopf. For 10 points, name this country, invaded by Iraq in 1990.

ANSWER: State of **Kuwait** <Laurie, World History>

11. **The de Rham cohomology is defined as the quotient of differential forms described by this term with exact forms. A topological space X is Hausdorff if and only if the diagonal of X cross X has this property. The boundary of a set consists of points that are in every superset of S with this property, but not in the interior of S. A space is disconnected if and only if it has a proper nonempty subset which is both (*) open and has this property. Any subset of a compact space with this property must also be compact, and in a Hausdorff space, a compact set must have this property. Intervals in the real line have this property if they contain both their endpoints. For 10 points, identify this property held by a set whose complement is open.**

ANSWER: **closed** [or word forms] <Thompson, Mathematics>

-- This packet contains 22 tossups. Halftime is after tossup 11. --

12. **It's not epic poetry, but Marcus Pacuvius was the only pre-empire Roman writer in this genre after Ennius died, until Lucius Accius became this genre's most prolific writer. Seneca wrote nine fabula crepidata, examples of this genre with Greek subjects, while *Octavia* is the only extant example of fabula praetexta, or this genre with Roman subjects. In a work in this genre, the chorus sings the praises of the hero described as (*) "furens" after he returns from the underworld. According to Nietzsche, this genre died because Socrates saw things too soberly and rationally. Hippolytus's step-mom falsely accuses him of rape in Seneca's *Phaedra*, a play in this genre. For 10 points, name this genre that Nietzsche said was born from the spirit of music and based on human suffering.**

ANSWER: **tragedy** [or *The Birth of Tragedy*; prompt on **drama**; the unnamed play is *Hercules Furens*] <Ranganathan, World/Other Literature>

13. **According to its museum, this painting shows preparations for an "il toccamano" ritual, where the bride expresses consent by touching the groom's hand. The model for this painting likely also posed for the artist's later paintings *Girl in a Fur* and *La Bella*. Guidobaldo II della Rovere may have commissioned this painting as a gift for his wife. This painting and its artist's portrait of Eleonora Gonzaga are both in the Uffizi, and both contain the same sleeping little (*) dog. Near a potted myrtle plant in the background of this painting, a girl in white rummages through a *cassone* marriage chest. This painting's subject holds a posy of roses and lies nude on crumpled white sheets. For 10 points, name this painting of a reclining goddess by Titian.**

ANSWER: ***Venus of Urbino*** [or ***Venere di Urbino***; or ***Reclining Venus***] <Tsai, Painting>

14. **An attempt to carry out two simultaneous mid-air bombings was foiled by the fact that, unlike Japan, this country observes Daylight Savings Time. The first airplane in Lufthansa's fleet not to be named after a location in Germany is named after a pair of cities in this country. Phan Thị Kim Phúc ["faang tih kim fookp"], the so-called "Napalm Girl", defected to this country during a layover on a flight from Cuba to Moscow. The Sikh terrorist group (*) Babbar Khalsa bombed Air India flight 182, which departed from this country. Many flights were diverted to airports in this country on September 11th, 2001 during Operation Yellow Ribbon. For 10 points, identify this country home to airports named for former prime ministers Lester Pearson and Pierre Trudeau.**

ANSWER: **Canada** <Thompson, Other Academic>

15. *Description acceptable.* **After the introduction of this policy, a government distributed a number of Bert Greeves' Invacars. In reference to his pioneering work on this policy, documents used in it are called Lloyd George envelopes. The King's Fund transitioned from fundraising to being a think tank after the introduction of this policy. A dispute over this policy triggered by an ad about a five year old girl putatively named Jennifer took on a name referencing an 18th century conflict during the (*) 1992 general election. Aneurin Bevan spearheaded the effort to establish this policy. This policy, which was among the suggestions of the Beveridge Report, was created under Clement Attlee. For 10 points, name this policy, established via the 1946 National Health Service Act.**

ANSWER: **universal healthcare** in the **United Kingdom** [accept **National Health Service** before mention; prompt on **universal healthcare** with "in what country?"; prompt on any answer indicating **healthcare** reform; prompt on any answer indicating the British **welfare** state] <Laurie, Other History>

16. The book *Paul and Palestinian Judaism* argued that Paul's derision towards realizing this concept through "works of the Law" was a criticism of Jewish ritual practices. 20th-century Protestant thinkers enumerated a set of five principles essential to this concept, adding Christ and the Glory of God to an older set of three principles such as "grace over merit." The Anglican Church holds that this concept cannot be achieved through (*) "works or deservings." Catholics believe that this process can be reversed by mortal sin, while Protestants generally hold a *sola fide* viewpoint on it. The removal of sin is the goal of, for 10 points, what process which many Christians believe can be accomplished through "faith alone"?

ANSWER: **salvation** [or **deliverance**, or **redemption**, or **justification**; prompt on **atonement**] <Thompson, Religion>

17. Several congenital fibrocystic diseases of this organ are classified as ductal plate malformations. Microstructural grooves were developed by Nakao et al. to mimic a subunit in this organ for its organ-on-a-chip, which is typically structured with a scaffold and an endothelial barrier. Damage to this organ can be indicated by palmar erythema and spider angiomas. This organ's function is assessed by measuring the AST/ALT ratio or measuring (*) serum albumin, which is produced in this organ. Kupffer cells line this organ's sinusoids, which has blood provided by the portal vein. Cirrhosis of this organ can lead to abnormal levels of bilirubin, manifesting as jaundice. For 10 points, name this large abdominal organ that secretes bile and is inflamed during hepatitis.

ANSWER: **liver** <Tsai, Biology>

18. One book by this thinker tells the sad story of the theologian Alexander Crummel who was educated by Beriah Green and moved to Liberia to profess the faith. This thinker criticized a contemporary by characterizing his opinion as an "old attitude of adjustment and submission." In a chapter called "The Propaganda of History," this thinker, who criticized the Dunning School, spoke about how his *Encyclopedia Britannica* cut his chapter on the (*) American Negro. In his most famous work, this author of *Black Reconstruction in America*, adopted a concept of Emerson's to explain how African Americans consider themselves in the light of a world which looks at them in "amused contempt and pity." For 10 points, what American thinker developed the idea of "double consciousness in *The Souls of Black Folk* and also founded the magazine *The Crisis* as part of his work for the NAACP?

ANSWER: W. E. B. **Du Bois** [or William Edward Burghardt **Du Bois**] <Bunker, Other Social Science>

19. The phrase "I'm in training, don't [this action]" is written on a shirt worn by Claude Cahun in one of her self-portrait photographs. It's not drinking, but an early "rayograph" shows hands imposed on the face of Kiki de Montparnasse doing this action with Man Ray. A graffiti painting by Dmitri Vrubel depicts two men doing this action and was on the East side of the (*) Berlin Wall. George Mendosa and Greta Zimmer Friedman are the most widely accepted claimants for a famous photo of this action; that 1945 photo, which Friedman claimed was not consensual, captured her in a dental hygienist uniform with a sailor in front of a celebrating crowd in New York. For 10 points, what action is depicted in Alfred Eisenstaedt's photo *V-J Day in Times Square*?

ANSWER: **kissing** [or word forms; or *Le baiser de l'hôtel de ville*; or **kiss me**] <Tsai, Other Visual>

20. A poem about this poem's creation repeats the sentiment "it was not right, it was wrong / But often we all do wrong" to describe its author casting blame rather than accepting he was "stuck." The command "weave a circle round him thrice / And close your eyes with holy dread" is given in this poem to describe viewing a person who has "drunk the milk of paradise." This poem was published alongside (*) *Christabel* and "The Pains of Sleep" on the urging of the poet's friend Lord Byron. This poem, the subject of Stevie Smith's "Thoughts About the Person from Porlock," describes an "Abyssinian maid" singing of "Mount Abora." For 10 points, name this poem about the title ruler's "stately pleasure-dome" in Xanadu, by Samuel Taylor Coleridge.

ANSWER: "**Kubla Khan**" <Laurie, British Literature>

21. To bypass secret sharing laws, this country would describe its nuclear research and learn what was unproductive in a game it developed with an ally called 20 Questions. Nine of this country's soldiers were exposed to harmful amounts of radiation during the Beryl incident. Until the testing of Tsar Bomba, the largest nuclear explosion was this country's Blue Jerboa test. This country's Minister of Defense Charles (*) Hernu resigned after it authorized the bombing of a ship protesting its nuclear program, the Greenpeace ship *Rainbow Warrior*. This country's first nuclear test occurred in Reggane, an Algerian town in the Sahara desert. For 10 points, name this country that first tested nuclear weapons under Charles de Gaulle.

ANSWER: **France** [or **French Republic**; or **République française**] <Laurie, European History>

22. It's not density, but this quantity fluctuates randomly over the length of a 1D quantum fluid. Both charge conservation and electromagnetic gauge invariance are equivalent to invariance under changes of this quantity. In the Aharonov-Bohm effect, turning on a solenoid can alter the geometric form of this quantity. Changing this quantity globally leaves (*) expectation values unaltered because bras are conjugated kets. A velocity named for this quantity is equal to ω/k for a light wave, and interferometers measure small changes in this quantity. This quantity is the same for coherent waves. For 10 points, name this quantity representing the leftward or rightward shift of a wave.

ANSWER: **phase** shift [accept geometric **phase** or Berry **phase**] <Mitchell, Physics>

Bonuses:

1. This essay discusses how the author describes how words are like "white ants" in their corrosive power, but now has realized the masculine beauty of the flesh. For 10 points each:

[10] Name this 1970 essay, whose epilogue details a flight taken by an F-104. This essay showcases the author's growing appreciation for bodybuilding and martial arts.

ANSWER: ***Sun and Steel***: *Art, Action and Ritual Death* [or ***Taiyō to Tetsu***]

[10] In this novel by the author of *Sun and Steel*, Kashiwagi slaps and breaks up with his girlfriend after asking the protagonist, Mizoguchi, to steal irises and cattails for *ikebana*, or flower arranging.

ANSWER: *The **Temple of the Golden Pavilion*** [or ***Kinkaku-ji***]

[10] This nationalistic Japanese author of *Sun and Steel* and *The Temple of the Golden Pavilion* wrote about Kochan struggling to accept his homosexuality in *Confessions of a Mask*.

ANSWER: **Mishima** Yukio [or Yukio **Mishima**; or **Hiraoka** Kimitake] <Tsai, World/Other Literature>

2. A painting of Alexander the Great being lowered into the sea in a glass jar was produced for this ruler. For 10 points each:

[10] Name this ruler. A painting of this man shows him supervising a construction project while being fanned by two servants, and painting first flourished in this man's empire under his rule.

ANSWER: **Akbar** the Great [or **Akbar** I; or Jalal ud-Din Muhammad **Akbar**]

[10] Akbar oversaw the construction of this city as the new Mughal capital, which this city served as from 1571 to 1585. Another painting depicts Akbar receiving his sons at this location.

ANSWER: **Fatehpur Sikri**

[10] Mughal emperor Shah Jahan commissioned this white marble mausoleum in Agra for his favorite wife Mumtaz, who died during childbirth.

ANSWER: **Taj Mahal** <West, Painting>

3. The Kalabari Kingdom dominated the trade of this good in the late 1800s, and, following his fight with Bonny, allied with King Ja-ja of Opobo in trading this good with the British. For 10 points each:

[10] Name this good, which was the primary good traded from the West African Kingdom of Bonny after the ending of the slave trade.

ANSWER: **palm oil**

[10] This Fon Kingdom, whose last King was Béhanzin, engaged in the palm oil trade. The modern-day country of Benin was named for this Kingdom until 1975.

ANSWER: Kingdom of **Dahomey** [accept Republic of **Dahomey**]

[10] Opobo, Kalabari, and Bonny engaged in the slave trade in this modern-day country. Bonny, also known as Biafra, erupted in civil war in this country as a result of tension between its primary ethnic groups: the Yoruba, Igbo, and Hausa.

ANSWER: **Nigeria** <Laurie, World History>

4. This is the only political territory whose *de jure* capital has a population of zero. For 10 points each:

[10] Name this Caribbean island whose capital of Plymouth was buried by a pyroclastic flow during the 1994 eruption of its Soufrière Hills volcano.

ANSWER: **Montserrat**

[10] Following the eruptions, the population of Montserrat fell to about 1,200, with most people who left the island emigrating to this country, of which Montserrat is an overseas territory. This country also previously controlled Caribbean islands like Jamaica and Barbados.

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

[10] Montserrat's soccer team, then the lowest-ranked in the world, was the subject of the 2002 documentary *The Other Final*, in which they played a friendly match against this country's team, handing them their first ever international victory in front of 15,000 fans in its capital of Thimphu.

ANSWER: **Bhutan** <Thompson, Geography>

5. This concept is paired with "Danger" in the title of a book which analyses the role of dirt in different social contexts. For 10 points each:

[10] Name this concept in cultural anthropology often achieved through rites involving water which is also often seen in the concept of female virginity.

ANSWER: **purity** [accept word forms like "being **pure**" or "**purification** rite"]

[10] This anthropologist and student of E. E. Evans-Pritchard wrote *Danger and Purity*. She wrote about how cultures use body symbolism in her book *Natural Symbols*.

ANSWER: Mary **Douglas**

[10] In this religion's initiation ceremony, practitioners undertake a ritualistic bath called a nahan and cleanse their spirit during the bareshnum, where bull urine is poured onto the hands of practitioners. Dogs are considered pure in this religion.

ANSWER: **Zoroastrianism** <Bunker, Anthropology>

6. A coloratura soprano is required to sing a high F₆ in this opera's aria "Der Hölle ["her-luh"] Rache kocht in meinem Herzen" depicting the rage of the Queen of the Night. For 10 points each:

[10] Name this Wolfgang Amadeus Mozart opera, which tells of Tamino's quest to find Pamina with the aid of the title instrument.

ANSWER: *The **Magic Flute*** [or *Die **Zauberflöte***]

[10] This comical character, typically portrayed with colorful bird-like costumes since he is a birdcatcher, accompanies Tamino on his quest. This character, who was given magic bells, happily finds himself a similarly named girlfriend at the end of *The Magic Flute*.

ANSWER: **Papageno** [do NOT accept Papagena, who was the girlfriend]

[10] The role of Papageno was debuted by this man for the premier of *The Magic Flute*, who was also the opera's librettist. Because he was not the best singer, Mozart often doubled this man's vocal lines in the orchestra.

ANSWER: Emanuel **Schikaneder** <McMaken, Other Auditory>

7. It's not Turkey, but the term "Pomaks" is used to refer to Muslims who live in this country, whose Muslims, along with ethnic Greeks, agitated for an Ottoman occupation of Western Thrace in the 1910s. For 10 points each:

[10] Name this country. Sixty years after abolishing its monarchy, this country elected its final King Simeon II as Prime Minister.

ANSWER: **Bulgaria** [or People's Republic of **Bulgaria**]

[10] Bulgarian Muslims fled en masse during a period of 1980s forced secularization, known as the Revival process, pursued by this longtime Bulgarian leader. He allegedly ordered the assassination of dissident Georgi Markov via a ricin pellet fired from an umbrella.

ANSWER: Todor **Zhivkov**

[10] The largest ethnic cleansing of the Cold War era came after Zhivkov ordered an expulsion of Turks and Muslims as his government fell in 1989; that same year, this country's communist government, led by Nicolae Ceaucescu ["chow-chess-koo"], fell.

ANSWER: **Romania** <Laurie, European History>

8. Murder was a prerequisite for joining the "Nomads," an elite subunit of one of these organizations that fought the rival Rock Machine club during a 1990s war in Quebec. For 10 points each:

[10] Name these organizations, two of which, the Bandidos and the Cossacks, engaged in a 2015 shootout in Texas. An all-black one of these organizations named the East Bay Dragons opened on the advice of Sonny Barger.

ANSWER: **motorcycle clubs** [accept any answer describing a **gang, club,** or related organization composed of **biker** or **motorcycle** riders; prompt on **gangs** or equivalents by asking "what kind?"]

[10] The East Bay Dragons and the Hells Angels typically ride motorcycles produced by this company. This company's bikes are nicknamed "hogs."

ANSWER: **Harley-Davidson** [accept **Harley**]

[10] The Hells Angels clashed with Comancheros in this country, where the Comancheros are based. This country, the site of the Milperra massacre, nicknamed its biker gangs "bikies," homegrown examples of which include Notorious, The Rebels, and The Gladiators.

ANSWER: Commonwealth of **Australia** <Laurie, Other Academic>

9. A thinker from this country argued that historical materialists leave it to others to be "drained by the whore called 'Once upon a time'" and instead "blast[s] open the continuum of history." For 10 points each:

[10] Name this country, home to the author of "Theses on the Philosophy of History." A historian from this country critiqued industrialization and its effect on workers while staying in Manchester.

ANSWER: **Germany** [or **German** Empire; the unnamed historian is Friedrich Engels]

[10] In "Theses," Walter Benjamin ["ben-yah-MEEN"] criticized the notion of "[telling] it how it really was" developed by this historian. This author of a *Universal History* pioneered the emphasis on primary sources.

ANSWER: Leopold von **Ranke**

[10] Ranke's approach was also attacked by E. H. Carr in a series of G. M. Trevelyan lectures at this university. It is the second oldest British university behind Oxford.

ANSWER: University of **Cambridge** <Laurie, Other History>

10. Quantum mechanically, this quantity is defined as the trace of the Boltzmann factor or the exponential of beta times the Hamiltonian. For 10 points each:

[10] Identify this thermodynamic quantity which measures the phase-space volume of the states accessible to a system, usually symbolized Z.

ANSWER: **partition function**

[10] In this ensemble, the partition function is equal to the exponential of negative Helmholtz free energy divided by Boltzmann's constant times temperature.

ANSWER: **canonical** ensemble [accept **NVT** ensemble; do NOT accept "grand canonical ensemble" or "microcanonical ensemble"]

[10] In the canonical ensemble, the partition function is the sum over these configurations of $e^{-\beta E}$ to the negative beta times energy. Entropy scales with the log of the number of these configurations.

ANSWER: **microstates** <Bunker, Physics>

11. H. L. Mencken was among the "experts" called in to testify whether or not these images were obscene in a case which ruled against censorship of *Esquire* for publishing them. For 10 points each:

[10] Name these images, one of which, created by Alberto Vargas, led to the aforementioned case. George Petty helped boost their popularity while working for *Esquire*.

ANSWER: **pin-up** girls

[10] After a legal dispute and fallout with *Esquire*, Vargas began drawing pinups for this magazine. This magazine was founded by Hugh Hefner and features a bow tie-wearing rabbit in its logo.

ANSWER: **Playboy**

[10] Josephine Baker, sometimes cited as an early black pin-up girl, iconically performed a dance in *Un Vent de Folie* wearing a skirt made of these items. Performance artist David Datuna destroyed an artwork featuring one of these items, which was Maurizio Cattelan's *Comedian*.

ANSWER: **bananas** <Laurie, Other Visual>

12. In "Torso of Air," Ocean Vuong described a "body-sealed with bruises" and responded to this line by proclaiming "suppose you do [accomplish the goal of this line]." For 10 points each:

[10] Name this line, which inspired the ending line of Mary Oliver's "The Swan." This line ends a poem about an object "with eyes like ripening fruit."

ANSWER: "**You must change your life**"

[10] The first poem in this collection by the same author declares that "beauty is nothing but the beginning of terror" and asks whether you "have remembered Gaspara Stampa sufficiently yet."

ANSWER: **Duino Elegies** [or **Duineser Elegien**]

[10] This German poet declared that "you must change your life" in his poem "The Archaic Torso of Apollo." This poet was inspired to write the first Duino Elegy after looking at the Adriatic from Duino Castle.

ANSWER: Rainer **Rilke** [or Rainer Maria **Rilke**; or Rene Maria **Rilke**] <O'Rourke, European Literature>

13. This philosopher's book *Ethics* is subtitled "An Essay on the Understanding of Evil" and argues that the modern conception of ethics reinforces the status quo by critiquing an ethics based on negative human rights. For 10 points each:

[10] Name this French Marxist who, in his book *Being and Event*, wrote about how one must look past Cantorian set theory in order to speak of multiplicities.

ANSWER: Alain **Badiou**

[10] Badiou claimed that "mathematics is" this field of philosophy. This branch of metaphysics broadly deals with questions of "being."

ANSWER: **ontology**

[10] A medieval ontological debate concerned the existence of universals. This nominalist philosopher denied the existence of universals and formulated his namesake "razor."

ANSWER: William of **Ockham** [or William of **Occam**; or Gulielmus **Occamus**; accept **Ockham's** razor] <Bunker, Philosophy>

14. In one play by this author, a character believes he is actually a wolf in a scene where a cardinal forces Julia to kiss a poisoned Bible, killing her. For 10 points each:

[10] Name this Jacobean playwright, who wrote about the toxic relationship between the title noblewoman and her jealous and violent brothers, the Cardinal and the lycanthropic Ferdinand.

ANSWER: John **Webster** [the unnamed play is *The Duchess of Malfi*]

[10] John Webster's violent dramas may have been inspired by this Shakespearean character. In this Roman character's bloody revenge play, he kills his daughter Lavinia after she is raped and her tongue and arms are removed.

ANSWER: **Titus Andronicus**

[10] This literary critic attacked *Titus Andronicus* as "an exploitative parody" and concluded that the best director for it was Mel Brooks. He argued against the "School of Resentment," whom he claims are more concerned with political motives over literary value.

ANSWER: Harold **Bloom** <Bunker, British Literature>

15. Rocking, wagging, and twisting are three of the vibrations that can occur in a molecule while using this technique. For 10 points each:

[10] Name this type of spectroscopy that uses a namesake form of electromagnetic radiation that is longer than visible light to measure the resonant frequencies of molecular structures.

ANSWER: **infrared** spectroscopy [or **IR** spec]

[10] This region on an infrared spectrum occurs between 500 and 1500 inverse centimeters. Peaks here correspond to bending vibrations, but they tend to all blend together to create a unique pattern for every molecule.

ANSWER: **fingerprint** region

[10] This sampling technique used in conjunction with infrared spectroscopy enables samples to be examined directly in the solid or liquid state without further preparation. In this technique, the sample is plated on a germanium or zinc selenide crystal.

ANSWER: **attenuated total reflectance** [or **ATR**, **ATR-IR**, **ATR-FTIR**; prompt on "**powder infrared** spectroscopy" or "**powder IR**"; do NOT accept or prompt on "diffuse reflectance infrared fourier transform spectroscopy" or "DRIFTS"] <Phadnis, Chemistry>

16. In the first Homeric hymn to Aphrodite, Zeus causes Aphrodite to lust after this prince who was herding sheep on Mount Ida. For 10 points each:

[10] Aphrodite pretends to be a Phrygian princess brought by Hermes to marry this man. She tells this man the story of Zeus and Ganymede to comfort him once she reveals herself as a goddess.

ANSWER: **Anchises**

[10] Aphrodite was married to this crippled blacksmith god, with whom she had no children.

ANSWER: **Hephaestus**

[10] According to Ovid, Aphrodite and Persephone argued over who would get to be this man's lover. This son of Myrrha was gored by a boar and died in Aphrodite's arms.

ANSWER: **Adonis** <Ranganathan, Mythology>

17. A crescendo from the third movement of this symphony is often likened to a "death shriek." For 10 points each:

[10] Name this symphony, named after a Friedrich Gottlieb Klopstock hymn setting which appears in its fifth movement. The fourth movement, titled "Urlicht", takes its text from *Des Knaben Wunderhorn*, like the earlier *Titan* Symphony.

ANSWER: **Resurrection** Symphony [or **Auferstehung** Symphony; or Gustav **Mahler's** Symphony No. **2**]

[10] Though it is rarely done today, Mahler's original score called for this action to be taken between the *Resurrection* Symphony's first two movements. Conductor Julius Butts did this after the fourth movement instead, earning Mahler's praise. A description is acceptable.

ANSWER: **pausing** for five minutes [accept any answer indicating a **longer-than-usual gap** between movements]

[10] In the latter two movements of the *Resurrection* Symphony, Mahler calls for a mixed chorus as well as solos for these two voice types. These two voices are typically the highest in a SATB choir, above tenors and basses. Name both.

ANSWER: **sopranos** AND **altos** <Mitchell, Classical Music>

18. Marcel Griaule ["gree-ohl"] and Germaine Dieterlen reported that a group of ancestor spirits called the Nommo were said to have originally lived in this location. For 10 points each:

[10] Name this location. The Dogon people's Sigui festival, which only occurs around once every sixty years, has been claimed to commemorate the historic arrival of a group of visitors from this location.

ANSWER: **Sirius** [or **Alpha Canis Majoris**, accept any answers indicating a location in the **Sirius system** or **orbiting Sirius**]

[10] Like many other Dogon festivities, some participants in the Sigui festival wear elaborate instances of these objects. Many West African cultures use these objects for traditional religious rituals.

ANSWER: **masks**

[10] Dogon boys undergo a coming-of-age ceremony in which this action is performed on them to reinforce their maleness. In Judaism, this action is performed by a mohel in a ceremony called a bris.

ANSWER: **circumcision** [accept anything indicating **removing the foreskin**] <Tsai, Religion>

19. This book's author recounts examining F. Scott Fitzgerald's penis and consoling him after Zelda told him his inability to please a woman sexually was a "matter of measurements." For 10 points each:

[10] Name this memoir. In its second chapter, Gertrude Stein instructs the author to stop writing things that are *inaccrochable* ["een-ah-krohsh-AH-bluh"].

ANSWER: *A **Moveable Feast***

[10] In *A Moveable Feast*, Hemingway recounts axing the ending of "Out of Season" as part of this theory of his that a story is better if the writer omits things that the author knows and that the reader feels.

ANSWER: **iceberg** theory

[10] *A Moveable Feast* recounts Hemingway's time in this French city. In *A Tale of Two Cities*, Doctor Manette is imprisoned in this city's Bastille prison.

ANSWER: **Paris** <Laurie, American Literature>

20. The expression of antioxidant proteins is regulated by NRF2. For 10 points each:

[10] NRF2 is a transcription factor, meaning that it controls the production of this type of RNA, which is transcribed from protein-coding genes and read by ribosomes.

ANSWER: **messenger** RNA [or **mRNA**]

[10] Under normal conditions, NRF2 is kept in the cytoplasm by KEAP1 and Cullin 3, which degrade NRF2 by the addition of this 76-amino-acid regulatory protein.

ANSWER: **ubiquitin**

[10] One gene upregulated by NRF2 is this enzyme, which breaks down heme into iron, biliverdin, and carbon monoxide.

ANSWER: **heme oxygenase** [or **HO**] <Mukherjee, Biology>

21. A White and mostly joking organization named the Society for the Prevention of Calling Sleeping Car Porters this first name campaigned for the use of small name tags. For 10 points each:

[10] Give this first name, used dismissively in place of real names when referring to sleeping car porters. A. Philip Randolph's Brotherhood of Sleeping Car Porters was nicknamed the "10,000 Black Men Named" this.

ANSWER: **George**

[10] E. D. Nixon, a BSCP member and leader of the NAACP in this city, decided not to use Claudette Colvin's arrest as a rallying cry for a protest in this city. Shortly before founding the SCLC, a pastor at this city's Dexter Avenue Baptist Church led those protests in this city.

ANSWER: **Montgomery** [accept **Montgomery** Bus Boycotts]

[10] Rather than use Colvin's arrest, E. D. Nixon and other local leaders kickstarted the Montgomery Bus Boycott after the arrest of this woman, who had refused to sit in the back of the bus.

ANSWER: Rosa **Parks** <Laurie, American History>

22. In this scale, cloud column height, tropospheric injection, and stratospheric injection are all taken into account when classifying a namesake type of natural disaster. For 10 points each:

[10] Name this logarithmic scale used as a relative measure of a natural disaster that ranges from 0 to 8 and uses terms ranging from "gentle" to "mega-colossal."

ANSWER: **Volcanic Explosivity Index** [accept **VEI**]

[10] Values on the Volcanic Explosivity Index range based on the amount of this material produced in a volcanic eruption. This fragmental material is classified based on the size and then categorized into ash, lapilli, or volcanic bombs.

ANSWER: **tephra**

[10] Volcanic bombs are the largest type of tephra, and thus cool after leaving the volcano, forming this type of rock. This type of rock joins sedimentary rock and metamorphic rock as one of the three main rock types.

ANSWER: **igneous** rock <Phadnis, Earth Science>