

2020 WORKSHOP: We Oughtta pRopose aKronymS aHead Of Ptime

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Packet 3

Tossups

1. **Changes made to the national flag under *this* head of state removed the motto “One, Great, Free” and took off a large black eagle. The “pact of forgetting” amnesty law was encouraged by this head of state after he appointed Adolfo Suárez to his highest position. This head of state foiled Antonio Tejero’s attempt to take over the Congress of Deputies in the 23-F incident. This head of state asked (*) Hugo Chávez “Why don’t you shut up?” at a meeting where Chávez repeatedly interrupted one of his countrymen. This head of state was groomed to succeed a leader who banned all political parties except the Falange. The ETA attempted to assassinate this ruler at the opening of the Guggenheim Bilbao. For 10 points, what father of Felipe VI became king of Spain after the death of Francisco Franco?**

ANSWER: Juan Carlos I <EL>

2. **In his explanation for the muon mass, Dirac proposed a form of *this* quantity for a membrane that served as a precursor to this quantity’s formulation in string theory. For oscillatory systems, a transformation that makes the Hamiltonian depend on this quantity alone is useful in solving for eigenfrequencies, and results in the generalized coordinates being this quantity and angle. The differentiable (*) symmetries of this quantity correspond to a system’s conserved quantities by Noether’s theorem. The derivative of this quantity with respect to path changes is zero by Hamilton’s principle. For 10 points, name this quantity equal to the time integral of the Lagrangian.**

ANSWER: action [prompt on S or I; accept Nambu–Goto action; accept action-angle coordinates; accept principle of stationary action or principle of least action] <GH>

3. **This location names a 2011 poetry collection which begins, “Is God being or pure force? The wind / Or what commands it?” In a short story, Nathaniel York is implied to be murdered by bees in this location, which is home to a woman who dreams of the song “Drink to me only with thine eyes.” A Tracy K. Smith poetry collection is titled for *Life On* this location. William Stendahl reconstructs a (*) Poe-inspired haunted house filled with robots in this setting of the stories “Ylla” and “Usher II.” A collection titled for residents of this location includes a short story about an automated house whose inhabitants died long ago from nuclear weaponry; that story is “There Will Come Soft Rains.” A collection of *Chronicles* by Ray Bradbury is titled for residents of—for 10 points—what planet?**

ANSWER: Mars [prompt on Green Valley with “can you be less specific?”] <CMA>

4. **The Prometheus myth was used to argue that *this* man’s account of temporality is not adequately based in technics in a 1994 book by Bernard Stiegler. With Wittgenstein and Dewey, this man was praised as “edifying” in Richard Rorty’s *Philosophy and the Mirror of Nature*. According to this man, a metaphorical “clearing” makes it possible for an artwork’s meaning to be disclosed. This man used the term “care” to describe an orientation toward (*) death, which can be recognized in one’s “thrownness.” This man noted how broken tools are just “things,” while we naturally want to reach out and use a working hammer. This author of “The Origin of the Work of Art” claimed that Jews are “uprooted from Being-in-the World” and thus lack authentic *dasein* [DAH-zeyn]. For 10 points, who wrote *Being and Time*?**

ANSWER: Martin Heidegger <CM>

5. **Tailings from a refinery for these resources were given to farmers in the town of Bukit Merah in the 1980s, leading to a massive settlement against Mitsubishi and protests against the Australian Lynas Corporation. Being close to the Bayan Obo region makes the city of Bāotóu in Inner Mongolia a global center for processing these resources. Since the closure of the Mountain Pass Mine in California, (*) China has produced more than 95% of these resources. The chemist Johan Gadolin discovered several of these elements in a mine at the Swedish town of Ytterby, which is the namesake of four of them. For 10 points, name this group of elements important in producing magnetic components for electronics, which includes cerium, neodymium, and praseodymium.**

ANSWER: rare-earth elements [or lanthanides or lanthanoids; or REEs] <JM>

6. **Blue floral wallpaper comprises the background of a “Composition” that shows one of these objects separating patches of “sky” and “forest.” One of these objects erupts into “888 pieces” shaped like rhinoceros horns in a painting titled for the “Moment of First Explosion.” A fish floats behind several of these objects in a painting that shows a lattice of bricks replacing the scenery of another painting. The reflection of a single candlestick and one of *these* objects is seen above the (*) fireplace from which a train emerges in a painting by René Magritte. The artist later painted the “*Disintegration*” of a 1931 painting that shows an army of ants covering an orange one of *these* objects in a Catalan landscape. For 10 points, what objects “melt” in Salvador Dali’s *The Persistence of Memory*?**

ANSWER: clocks [or pocket watches; accept timepieces, or other equivalents] <GE>

7. **A contemporary review called this symphony “Pure Romanticism” for inducing a “vague yearning,” and notes that the opening can sound like it’s in E-flat major. This symphony’s scherzo and its fugato-like trio both open with just the cellos and basses playing in unison. This symphony’s fourth movement opens with the ascending half-notes [read slowly] “C, E,” then the dotted half “G,” then the descending quarters (*) [read slowly] “F-E-D-C-D-C.” This symphony’s scherzo “returns” in the middle of the fourth movement, which ends with twenty-nine measures of C-major chords. This symphony premiered in 1808 alongside its numerical successor, the “Pastoral” symphony. A short-short-short-long motive often dubbed “fate knocking at the door” opens—for 10 points—what symphony by Ludwig van Beethoven?**

ANSWER: Beethoven’s Fifth [accept anything indicating Ludwig van Beethoven’s Symphony No. 5; “Beethoven” is not needed after his name is read] (The review is by E.T.A. Hoffmann.) <EL>

8. **A series of questions in this poem includes, “Did we watch the dawn from the Hotel Vernet / dancing with the chestnut trees— / did you say ‘it’s late,’ combing your hair?” Bona Tibertelli de Pisis inspired this poem whose speaker admits to his lover, “I’ve forgotten your name, Melusina, / Laura, Isabel, Persephone, Mary, / your face is all the faces and none.” Close to this poem’s halfway mark is the brief line (*) “Madrid, 1937.” In this poem, which was translated by Eliot Weinberger, the speaker says “I travel your body, like the world,” and concludes with the image of “a river that turns, moves on, / doubles back, and comes full circle.” This poem opens, “Willow of crystal / poplar of water.” The Aztec calendar inspired—for 10 points—what 584-line poem by Octavio Paz?**

ANSWER: “Sunstone” [or “Piedra del sol”] <CMA>

9. **Cancers of this organ can present as an elevated concentration of vanillyl-mandelic acid in the urine. Advanced meningococcal infection can cause this organ to shut down from internal bleeding in Waterhouse-Friderichsen syndrome. The PC12 neural crest cell line is derived from PCCs in this organ and responds to the application of dexamethasone. This organ can fail to produce the otherwise extremely common (*) dehydro-epi-androsterone-sulfate when stimulated with ACTH. That failure results from damage to this organ's cortex, which also produces steroid hormones. Addison's disease occurs when this organ is unable to produce the glucocorticoid cortisol. For 10 points, name these endocrine organs that sit atop the kidneys and produce epinephrine.**

ANSWER: **adrenal** glands [accept **suprarenal** glands] <RRP>

10. **This practice serves as an opportunity for males to publicly express generosity and philanthropy, according to a book by Steven Nock titled for it "in men's lives." Nock later wrote a book examining the rise of a unique form of this practice that is only legal in Arizona, Arkansas, and Louisiana. In a book titled for the "future" of this practice, Jessie (*) Bernard argued that this practice constitutes an "emotional health hazard" for women. One book describes how this practice led to the rise of the "Ph. T" degree and shows that over the course of the 1950s, the average age of women who engaged in it for the first time dropped to 20. Those aspects of this practice were cited by Betty Friedan as causes of a "problem with no name." For 10 points, name this practice that can be reversed with a divorce.**

ANSWER: **marriage** [or obvious equivalents] <WHM>

11. **In a scandal during his presidency, this leader ordered a shipment of 10,000 AK-47s from Jordan that were delivered to a leftist guerrilla group in a neighboring country. In a "shock" named for the first four letters of his surname, this leader implemented austerity reforms after defeating a FREDEMO party candidate by promising not to do so. A paramilitary group supporting this leader, Grupo (*) Colina, killed fifteen partygoers in the Barrios Altos massacre. This leader staged a "self-coup" in 1992 in which he dissolved parliament partly in order to prosecute a war against a guerrilla group led by Abimael Guzmán. For 10 points, name this leader who defeated the Maoist Shining Path Guerrillas as the first Peruvian president of Japanese descent.**

ANSWER: Alberto **Fujimori** <ZK>

12. **Dibutyl-boron triflate is used to enantio-selectively prepare Z starting products, which can then be used for the syn-selective version of this reaction. Under basic conditions, whether or not a particular reactant has an alpha hydrogen determines whether this reaction or the Cannizzaro reaction will occur. This reaction's stereochemistry is explained by the chair conformation of its intermediate according to the (*) Zimmerman-Traxler model. When this reaction is coupled with a Michael addition, the two-step method is known as a Robinson annulation. Under basic conditions, this reaction forms a carbon-carbon bond via the enolate mechanism. For 10 points, name this type of reaction that form its namesake product that features both an aldehyde and an alcohol.**

ANSWER: **aldol** condensation [or **aldol** reaction] <VF>

13. In a story by this author, the title soldier decides he wants to be a prisoner after seeing a bird move among dead leaves. In another story by this author, a group of prostitutes makes an entire church congregation cry at a confirmation ceremony. In addition to “Walter Schnaffs’ Adventure,” this author wrote about a character who blows up a statue of Venus using a (*) teapot filled with gunpowder, a character who is later stabbed by the Jewish prostitute Rachel. In this author’s most famous story, Mathilde Loisel and her husband work to pay off their debt after buying a replacement piece of jewelry. For 10 points, name this French author of “Madame Tellier’s Establishment,” “Mademoiselle Fifi,” and “The Necklace.”

ANSWER: (Henri René Albert) Guy de Maupassant [moh-pah-SAHN] <EF>

14. This object was often shown under Ashur’s winged disk, and it was usually tended by genies or the king using a bucket and cone. Like the Master of Animals, this object was often shown flanked by con-fronted animals throughout the ancient Near East. Products of this object comprise the Treasury of Souls. According to Proverbs, for those who grasp the Torah, it is like this object, which thus names the Torah scroll’s handles. Christianity takes this object to prefigure the Cross, and Revelation describes it on the banks of a (*) “clear river.” A diagram of this object depicts emanations of the Infinite Light, or *Ohr Ein Sof*, and is made of ten circles representing the *Sefirot*. Unlike a similar object, Adam and Eve did *not* eat from—for 10 points—what tree that grows alongside the Tree of Knowledge?

ANSWER: tree of life [prompt on less specific answers like trees or plants; or etz chaim or atzei chaim] <GH>

15. The campaign manager of the Citizen’s Party in *this* election wrote an alternate history novel in which nominee Sonia Johnson became president. Before this election, one candidate dropped his nomination of Rita Lavelle for EPA administrator after she misappropriated Superfund money in the “garbagegate” scandal. At a vice-presidential debate during this election, one candidate attacked another for his “patronizing (*) attitude.” One candidate in this election responded to his primary opponent’s advocacy of “new ideas” by asking him “Where’s the beef?” That candidate in this election defeated Gary Hart in the Democratic primary, nominated Geraldine Ferraro as his running mate, and went on to only win his home state of Minnesota. Walter Mondale lost—for 10 points—what election in which Ronald Reagan was reelected to serve a second term?

ANSWER: United States presidential election of 1984 <ZF>

16. This architect’s glass-and-steel “Biosfera” is home to 150 species of flora and fauna and sits in Genoa’s Porto Antico. This architect chose to leave the ruins of Edward Middleton Barry’s Royal Opera House as an open-air space during the remodel of the Valletta City Gate. This man designed an entrance building to go with the McKim Building at the Morgan Library. This man’s use of sliding joints helped a wing-shaped building survive the 1995 (*) Kobe earthquake unscathed despite its mile-long departure lounge. This man was the alphabetically-first designer of a museum that has its elevators, electrical wiring, and plumbing in colored tubes on the outside. For 10 points, what Italian architect designed the new Whitney Museum and collaborated with Richard Rogers on the Centre Pompidou?

ANSWER: Renzo Piano <AR>

17. Rival gangs in *this* profession gained control over the towns of Hill’s Bar and Yale, and induced each town’s magistrate to hold the other’s magistrate in contempt during McGowan’s War. As a response to that conflict, Richard Moody was sent to quash violence among members of this profession and establish a new territorial capital. The Fraser Canyon War was fought when members of this profession intruded into First Nations land. Robert (*) Service became known as “the bard of” his adopted region for his ballads about men in this profession. The Chilkoot and White Pass trails were used by members of this profession to move to the site of Skookum Jim’s discovery. Dawson City was a center of—for 10 points—what profession whose members moved to the Klondike region in a namesake “rush”?

ANSWER: **gold miners** [accept word forms; accept **prospectors**, as well as any answer that mentions obtaining **gold**; prompt on **miner**] <CS>

18. A poem from this collection includes a comparison to “a robbed man” who finds “His stolen stuff sold,” and must “lose or buy it again.” The speaker of that poem in this collection tells himself to “digest / ...this wholesome meditation.” Vivian Bearing frequently quotes poems from this collection in Margaret Edson’s play *Wit*. The speaker of a poem from this collection later asks the addressee to “Divorce me, (*) untie or break that knot again” and to “break, blow, burn, and make me new.” Another poem in this collection states that “One short sleep past, we wake eternally” while a “mighty and dreadful” entity that is “slave to fate, chance, kings, and desperate men” shall die. For 10 points, identify this collection of nineteen poems, including “Death be not proud,” by John Donne.

ANSWER: ***Holy Sonnets*** [also accept ***Divine Meditations*** or ***Divine Sonnets***] <ES>

19. According to Henry Drewal, *these* beings are grouped into “warm”, “cool”, and “light” color groups. After dust is sprinkled in a shallow bowl, memorized verses called *ese* [eh-shay] are used to interpret messages from these beings by *babalawos*. After a ritual invoking these beings, figurines called *ere ibeji* are often carved to commemorate the death of twins. One of these beings associated with crossroads is said to have introduced the divination system of (*) *ifá*. One of these beings governing thunder was formerly the third ruler of the Oyo kingdom. These beings are also worshipped by the Ewe [ay-way] and Fon peoples, and are syncretized with Catholic saints in Santería and Candomblé. Ogun and Shango are—for 10 points—what beings worshipped in Yoruba and Yoruba-influenced religions?

ANSWER: **orishas** [or **orixas** or **orichas**] <JM>

20. Oded Regev proved that these systems could not solve learning-with-errors by reducing it to GapSVP. Urmila Mahadev developed an interactive measurement protocol that can verify that these systems have not acted fraudulently and relies on the difficulty of cryptographic lattice problems. These systems can perform fast (*) period-finding by performing an inverse Fourier transform on the output of a Hadamard transform. The placement of discrete logarithm in the BQP class has inspired key-exchange algorithms for the post-[these systems] era. These systems can use Shor’s algorithm to find a number’s prime factorization in polynomial time. For 10 points, name these systems which operate on qubits.

ANSWER: **quantum computers** [prompt on partial answer; prompt on **qubits**] <KW>

2020 WORKSHOP

Packet 3

Bonuses

1. One of the iconic companies of this period sued the creators of Triumph the Insult Comic Dog for defamation during a copyright dispute involving that company's sock puppet dog mascot. For 10 points each:

[10] Name this period that also saw the creation of a currency named "floozy" and the bankruptcy of many companies listed on the NASDAQ, starting in March of 2000.

ANSWER: **dot-com bubble** [or **technology bubble**; accept **dot-com boom** or **dot-com crash**] (The company described during the lead-in is Pets.com)

[10] In the leadup to the bubble, *this* Chairman of the Federal Reserve announced a plan to aggressively raise interest rates. He was succeeded by Ben Bernanke in 2006.

ANSWER: Alan **Greenspan**

[10] In a 1996 speech at the American Enterprise Institute, Greenspan coined *this* two-word phrase that suggested that the stock market might be overvalued. This phrase also titles a 2000 book by economist Robert J. Shiller.

ANSWER: **irrational exuberance** <WG>

2. Many of this element's organic compounds form tetrahedral or octahedral aggregates with the organic groups bonded to the centers of the faces rather than to the individual metal atoms. For 10 points each:

[10] Name this element whose *tert*-butyl compound is the strongest commercially available base. The pi electrons in this element's phenyl compound can bond to this element in another molecule, forming "ladders."

ANSWER: **lithium** [or **Li**; accept *tert*-butyl**lithium** or phenyl**lithium**]

[10] Many organolithium compounds, including *n*-butyl-lithium, can serve as initiators for the anionic addition form of *this* process. Both the anionic addition and radical types of this process proceed via the chain-growth mechanism.

ANSWER: **polymerization** [accept word forms; accept anionic addition **polymerization**, (free) radical **polymerization**, or chain-growth **polymerization**]

[10] Two rearrangements named for *this* chemist use alkyl-lithium compounds like *n*-butyl-lithium to convert an ether to an alcohol; one uses a radical mechanism, while the other has a cyclic intermediate and requires a double bond.

ANSWER: Georg **Wittig** [accept [1,2]-**Wittig** rearrangement or [2,3]-**Wittig** rearrangement] <GH>

3. A ballet by this choreographer is divided into three parts titled "Pilgrim of Sorrow," "Take Me to the Water," and "Move, Members, Move." For 10 points each:

[10] Name this choreographer who collaborated with Judith Jamison on dances like *Cry*.

ANSWER: Alvin **Ailey**

[10] Ailey was a student of Katherine Dunham, who performed one of *these* dances in the film *Stormy Weather*. The majority of solo dances performed by Fred Astaire were in this style, which requires shoes fitted with metal.

ANSWER: **tap** dancing [accept word forms]

[10] Ailey also choreographed a 1973 production of *Four Saints in Three Acts*, an opera by Gertrude Stein and *this* American music critic and composer.

ANSWER: Virgil **Thomson** <WG>

4. At least 15 people were killed and 65 wounded after American troops fired on protestors outside the Al Qā'id school in this city. For 10 points each:

[10] Name this city in which U.S. troops used cluster bombs and white phosphorus to dislodge insurgents who had previously hung four Americans from a bridge for providing security for food shipments.

ANSWER: **Fallujah**

[10] The First and Second Battles of Fallujah were fought during the US occupation of *this* country once led by Saddam Hussein.

ANSWER: Republic of **Iraq**

[10] The Americans hanged from a bridge in Fallujah were employed by *this* military contractor headed by Erik Prince. In 2007, four other employees of this company massacred Iraqi civilians in Baghdad's Nisour Square.

ANSWER: **Blackwater** USA [or **Xe** Services; prompt on Constellis Group] <MBo>

5. danah boyd's books *Taken Out of Context* and *It's Complicated* focus on the online lives of these people. For 10 points each:

[10] Name or describe these people. William Corsaro is best-known for studying these people's interactions in "peer cultures," while Bolton et al. published a 2013 "research agenda" for studying the effects of social media on them.

ANSWER: **youth** [or **adolescents**, **juveniles**, **young people**, **teenagers**, etc.; anti-prompt on specific groups like college students; prompt on children or kids]

[10] Dick Hebdige, another sociologist who studied youth, wrote a 1979 book on *these* entities. He argues that these entities use signs to resist dominant ideologies, but eventually become commodified and mainstream.

ANSWER: **subcultures** [prompt on cultures or subgroups]

[10] Hebdige argues that *this* British subcultural group, whose members dressed like Edwardian dandies, was revived in the 1970s as a response to the "proletarian posturings" of the punk subculture.

ANSWER: **Teddy boys** [or **Teds**] <MB>

6. In one poem, this animal is declared to be "a king in exile, uncrowned in the underworld." For 10 points each:

[10] Name this type of animal. It flees after the speaker of the poem throws a log at it, causing the speaker to state regretfully that "I have something to expiate: a pettiness."

ANSWER: **snakes**

[10] This author wrote "Snake." His novel *Lady Chatterley's Lover* was the subject of a major obscenity trial.

ANSWER: D(avid) H(erbert) **Lawrence**

[10] In "Annus Mirabilis," this poet claims that "sexual intercourse began" between "the end of the Chatterley ban and the Beatles' first LP." Another poem by this writer advises the reader to "Get out as early as you can / and don't have any kids yourself."

ANSWER: Philip **Larkin** <RZ>

7. For any homomorphism of groups, rings, or modules, the image is isomorphic to the quotient of the domain by *this* object, according to the first isomorphism theorem. For 10 points each:

[10] Name this object, which is the maximal subset of a function's domain with trivial image. In linear algebra, this object is sometimes called the nullspace.

ANSWER: **kernel**

[10] A sequence of functions has *this* property if the image of each function equals the kernel of the next function. Homology can be thought of as measuring how far a chain complex is from having this property.

ANSWER: **exactness** [accept **exact** sequence]

[10] Exact sequences are typically considered in categories of Abelian groups, which are groups where the operation has *this* property. Operations with this property are invariant when the order of inputs is permuted.

ANSWER: **commutativity** [accept word forms] <GH>

8. The Eight-Nation Alliance was created in response to this rebellion, and its members were rewarded afterwards with territorial concessions in Tiānjīn. For 10 points each:

[10] Name this anti-Western uprising in China carried out by the Righteous and Harmonious Fists.

ANSWER: **Boxer** Rebellion [or **Boxer** Uprising, or **Yihétuán** Movement]

[10] This conservative Qīng Empress Dowager supported the Boxer Rebellion. Although she had earlier staged a coup against her nephew due to his support for reform, she buckled to foreign pressure after the Boxers were crushed.

ANSWER: Empress Dowager **Cíxǐ** [TSUH-shee] [or “**Tz’u-hsi**”]; or **Xiàoqīn** [shyao-CHEEN]; or **Xiǎnhuánghòu** [shyehn-hwahng-HOH]

[10] When the German diplomat Clemens von Ketteler shot a young Chinese boy, *this* unit of Muslim troops rioted along with the Boxers. The Qing originally created this group to help suppress the earlier Dungan revolt.

ANSWER: **Kansu Braves** [or **Gānsù Braves** or **Gānsù Army** or **Gānjūn**; accept the **Rear Division of the Wǔwèi Corps**] <GC>

9. After escaping being shot when Vasco Miranda’s heart abruptly explodes, Moraes Zogoiby flees to one of these places. For 10 points each:

[10] Name this type of place home to the Jannat Guest House and residents like the *hijra* Anjum in *The Ministry of Utmost Happiness*.

ANSWER: **graveyards** [or **cemetery** or equivalents]

[10] This author, who wrote about the Kashmiri insurgency in *The Ministry of Utmost Happiness*, created the twins Rahel and Estha in *The God of Small Things*.

ANSWER: (Suzanna) Arundhati **Roy**

[10] Kashmiri author Salman Rushdie began *this* novel with Moraes Zogoiby’s flashback in a graveyard. This novel follows a family descended from Vasco da Gama and is titled for a story about Boabdil’s surrender of Granada.

ANSWER: *The **Moor’s Last Sigh*** <CMA>

10. The defeat of this type of creature is frequently described with a three-word stock construction that provides the name for Calvert Watkin’s work on the subject. For 10 points each:

[10] Name this type of creature that blocks the waters until it is killed by a culture hero in the *chaoskampf* motif.

ANSWER: sea **serpent** [or **dragon**; accept ***How to Kill a Dragon***]

[10] The serpent-slaying myth originated with the victory of Perkwunos over an unnamed serpent in *this* system of belief. The name of this system’s chief deity, Dyeus Ph₂ter [“DAY-uz FEE-ter”], is typically preceded with an asterisk to indicate that it was reconstructed.

ANSWER: **Proto-Indo-European** religion [or **PIE**]

[10] Dyeus translates literally to “god of [*this* concept]” and is associated with the brightness of the sun in the day. Unlike later myth systems, the merger of this concept with its counterpart the Earth did not create much of anything.

ANSWER: the daylight **sky** <GH>

11. Answer the following about large modern paintings that were defaced due to controversy, for 10 points each.

[10] This artist's mural *Thirteen Most Wanted Men* was covered up with silver paint before the opening of the 1964 New York World's Fair, despite his fame for painting *Campbell's Soup Cans*.

ANSWER: Andy **Warhol** [or Andrew **Warhola**]

[10] Eggs and red-and-blue ink were thrown at a portrait of murderer Myra Hindley at the 1997 *Sensation* exhibit organized by *this* Iraqi–British art collector and patron. He helped launch the career of artists like Tracey Emin.

ANSWER: Charles **Saatchi**

[10] Also at the *Sensation* exhibit, a man smeared white paint on Chris Ofili's *The Holy Virgin Mary*, calling it “blasphemous” because of his use of *this* organic substance.

ANSWER: elephant **dung** [or elephant **poop** or elephant **manure** or elephant **feces**, etc. etc.] <SdL>

12. After the death of one of their husbands and the capture of the other, Joan of Penthièvre and Joanna of Flanders led the two factions in a war for control of this region. For 10 points each:

[10] Name this northern region of France, where a succession dispute in the House of Dreux led to a proxy war involving the Montfort and Blois families.

ANSWER: **Brittany** [or **Bretagne**; accept War of the **Breton** Succession]

[10] At a masquerade thrown by *this* queen, a torch on the dance floor set several dancers on fire. This woman ruled France during the madness of her husband, Charles VI, and her historical reputation suffered due to polemics exchanged in the Burgundian–Armagnac Dispute.

ANSWER: **Isabella** of Bavaria [accept **Isabelle** or **Isabeau** of Bavaria]

[10] The War of the Breton Succession was a phase of, and Isabella ruled during, what lengthy conflict between France and England?

ANSWER: **Hundred Years'** War <JM>

13. Slow waves in this tissue originate in the interstitial cells of Cajal. For 10 points each:

[10] Name this tissue in which calmodulin performs a regulatory role analogous to troponin. Dense bodies in this tissue are equivalent to z-lines in *another* type.

ANSWER: **smooth muscle** [prompt on **muscle**]

[10] This type of smooth muscle can act independently from the autonomic nervous system. Action potentials travel through gap junctions in this type of smooth muscle, coordinating contractions across the entire structure.

ANSWER: **single-unit** smooth muscle [accept **syncytial** or **syncytium** smooth muscle; accept **visceral** smooth muscle]

[10] Like all muscle tissue, filaments of myosin and *this* protein are found in the contractile units of smooth muscle.

ANSWER: **actin** <JS>

14. This work's opening movement ends on a C-sharp dominant-seventh chord, having never cadenced in the tonic of F-sharp minor. For 10 points each:

[10] Name this piece that ends with a reprise of the coda from “Am leuchtenden Sommermorgen” [ahm LOYKH-tun-dun zaw-muh-MOR-gun] after a description of how “The old bad songs” will be buried in a “large coffin.”

ANSWER: **Dichterliebe** [DIKH-tuh-lee-buh] [accept *A Poet's Love*]

[10] This Romantic composer wrote *Dichterliebe* during his “Year of Song,” which was prompted by his engagement to virtuoso pianist Clara Wieck [veek].

ANSWER: Robert (Alexander) **Schumann**

[10] *Dichterliebe* is based on the *Lyrisches Intermezzo* [LOO-ri-shus in-ter-MET-zo] by *this* poet. Franz Schubert set some of his poems to music in the collection *Schwanengesang*, and Franz Liszt wrote a setting of his poem *Die Lorelei* [dee LOH-ruh-“lie”].

ANSWER: (Christian Johann) Heinrich **Heine** <EF>

15. The speaker of a poem about these creatures describes one of them as “more terrible than she ever was, red / Scar in the sky, red comet / Over the engine that killed her.” For 10 points each:

[10] Name these animals, whose “meeting” titles a poem which imagines the speaker as a “pillar of white in a blackout of knives” and “a magician's girl who does not flinch.”

ANSWER: **bees**

[10] A speaker in a poetry collection by *this* author says, “When you wanted bees I never dreamed / It meant your Daddy had come up out of the well.” That collection by this poet, titled *Birthday Letters*, also contains “The Bee God.”

ANSWER: Ted **Hughes**

[10] Karen Ford argues that Ted Hughes is responsible for the lack of attention to this author’s sequence of bee poems. Hughes moved the bee poems to the middle of this author’s collection *Ariel*.

ANSWER: Sylvia **Plath** <CMA, American Poetry (post-1950)>

16. The “final” one of these properties is also referred to as the *telos* of a thing. For 10 points each:

[10] Name these properties that Aristotle labels as “efficient,” “material,” “formal,” and “final.”

ANSWER: four **causes** [or **aiton** or **aitia**]

[10] One of Aristotle’s most detailed expositions of the four causes comes in *this* text. This text lends its name to a fundamental branch of abstract philosophy that’s traditionally divided into epistemology and ontology.

ANSWER: **Metaphysics** [or **Metaphysica** or **a meta ta phusika**]

[10] In Book Zeta of the *Metaphysics*, Aristotle claims that the substance of a thing is equivalent to *this* aspect of that thing. The original Greek for this term literally translates as “the ‘what it was to be’.”

ANSWER: **essence** [or **essentia** or **ousia**] <MB>

17. Observing the melting of the J/psi meson would confirm the formation of this substance, which is expected to contain excess strangeness and to quench particle jets. For 10 points each:

[10] Name this predicted state of matter in which hadrons break down into a sea of two types of particles.

ANSWER: **quark-gluon plasma** [or **QGP**; accept **quark soup**; prompt on **quark matter** or **QCD matter**; do not accept or prompt on “plasma”]

[10] Because quarks and gluons carry color charge, they engage in this interaction mediated by gluons. In the Standard Model, this interaction is explained by quantum chromodynamics.

ANSWER: **strong** interaction [or **strong** force; or **strong** nuclear force]

[10] The gluon with equal probability for each color-anticolor pair is forbidden since it would be this type of state, which can’t interact with colored states. Since hadrons are colorless, they’re also this type of state. These states are analogous to a class of states exemplified by “up down minus down up” over the square root of two.

ANSWER: (color) **singlet** state [accept spin **singlet** state] <GH>

18. The protagonist of this novel repeatedly fails to go into business with Dambreuse and begins an ill-fated affair with Rosanette when he believes he has been stood up by the true object of his affection. For 10 points each,

[10] Name this novel in which the former law student Frederic Moreau relentlessly pursues Madame Arnoux and lives through the Revolution of 1848.

ANSWER: **Sentimental Education**

[10] *Sentimental Education*, a semi-autobiographical work, was the last complete novel by *this* author of *Madame Bovary*.

ANSWER: Gustave **Flaubert**

[10] This writer wrote a “double portrait” of Flaubert and Madame Bovary. He summarized the title poet’s career as “transformations de Fregoli” in his biography *Cocteau*.

ANSWER: Francis **Steegmuller** <JMA>

19. In 1947, the British Army destroyed German bases on this island in the largest conventional explosion ever, Operation Big Bang. For 10 points each:

[10] A book by Jan Rüger recounts Britain's Napoleonic Wars-era seizure of what island from Denmark?

ANSWER: **Heligoland** [or **Helgoland**]

[10] Rüger's book discusses how Heligoland was the site of the first naval battle of *this* conflict, in which another naval battle was fought at Jutland. Barbara Tuchman's *The Guns of August* also discusses the beginning of this conflict.

ANSWER: **World War One** [or **First World War**; or **Great War**]

[10] In an 1890 agreement, Britain traded Heligoland to Germany in exchange for *this* island, on which Britain would soon fight the shortest war in history against Sultan Khalid bin Barghash.

ANSWER: **Zanzibar** [accept **Unguja**] <CS>

20. This man included a fictional chapter in one of his works in which John kills the son of Judge Henderson in retaliation for his sister Jennie's rape. For 10 points each:

[10] Name this thinker who included a short biography of Alexander Crummell alongside that chapter, "Of the Coming of John," in his best-known work.

ANSWER: W.E.B. **Du Bois**

[10] In that work, *The Souls of Black Folk*, Du Bois defines *this* two-word concept as "always looking at one's self through the eyes of others."

ANSWER: **double consciousness** [prompt on partial answer]

[10] Du Bois' 1899 study of African-Americans in *this* city, which was commissioned by the University of Pennsylvania, is considered one of the first statistically-based works of sociology.

ANSWER: **Philadelphia** [or *The Philadelphia Negro*] <CM>

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