

2020 WORKSHOP: We Oughtta pRopose aKronymS aHead Of Ptime

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Packet 2

1. **Mario Minniti is probably depicted as *this* figure in a painting that features a bowl of fruit with a split pomegranate and a worm-eaten apple. In another painting, this figure looks sidelong while placing a wreath on the head of a kneeling man in yellow. In that painting, this figure sits next to a man with a wide-brimmed hat who holds a bowl and grins out at the viewer. A painting from around 1595 shows this figure fingering the black bow of his robe while holding out a wide, shallow (*) glass. This figure’s entourage includes a woman with cymbals and a man tangled with snakes in a painting that shows him leaping out of a cheetah-drawn chariot. This god’s *Triumph* is depicted in Velázquez’s *Los borrachos*. Titian painted an encounter between Ariadne and—for 10 points—what Greco-Roman god?**

ANSWER: **Bacchus** [accept **Dionysus**; accept *The Triumph of Bacchus or Bacchus and Ariadne*] (The first painting is Caravaggio’s *Bacchus*.) <EF>

2. **A Nationality Act enacted under a leader from this party created a two-tiered citizenship that primarily restricted freedom of movement for people with “belonger status”. One politician from this party claimed that a certain policy was “like watching a nation busily engaged in heaping up its own funeral pyre” in a speech that takes its title from a line in Virgil’s *Aeneid*. In the days following Kristallnacht, a leader from this party admitted around 10,000 (*) children to his country during the “Kindertransport.” A politician from this party was forced to resign after wrongly deporting 83 members of the “Windrush generation.” Enoch Powell was defended after delivering the racist “Rivers of Blood” speech by Margaret Thatcher, the future leader of—for 10 points—what right-leaning British political party?**

ANSWER: **Conservative** Party of the **United Kingdom** [or **British Conservative** Party; accept **Conservative and Unionist Party**; prompt on **Conservative Party** or **Tories** by asking “Where?”] <CS>

3. **In 2018, a resident of this country claimed that a visit to his dying friend John McCain caused a breach of contract with the Big3 basketball league, leading Ice Cube to sue that resident of this country. This country’s government owns the football club Paris Saint-Germain. This country organized the transport of thousands of Sunni Syrians to Idlib province in exchange for the release of 28 hostages captured on a (*) falconry trip to Iraq. During a 2017 diplomatic crisis, a neighboring country threatened to build the Salwa Canal, which would have made this country an island. That crisis saw this country ostracized from the Gulf Cooperation Council. The news agency Al Jazeera is funded by the government of—for 10 points—what country where the 2022 World Cup will be played in cities like Doha?**

ANSWER: State of **Qatar** <ZK>

4. **In this novel, a woman who wears a brass-box earring slowly grabs a knife and calmly threatens to stab a man in the heart after he beats her daughter. The protagonist of this novel hears children sing a song with the refrain “Come booba yalle, come.” This novel, which features a band of killers known as the Seven Days, includes a scene in which two characters steal a bag of bones from a woman who has no (*) navel. In this novel, Robert Smith’s attempt to fly reflects the practices of the land of Shalimar. The protagonist of this novel receives his nickname due to the fact his mother Ruth nursed him for eight years. Guitar Bains accidentally kills Aunt Pilate while attempting to attack the protagonist of this novel. For 10 points, name this Toni Morrison novel about Milkman Dead.**

ANSWER: **Song of Solomon** <ES>

5. A 1990 essay by Hazel Carby analyzes the contradictory ways that the “folk subject” is constructed in the work of *this* anthropologist. At a hospital in Gonaïves, this anthropologist met Felicia Felix-Mentor, the first photographically documented “zombie.” This anthropologist sent a copy of the folk tale “T’Appin” and rotten wood from the (*) *Clotilda* to Alain Locke as part of a project focusing on the life of a man who was born Oluale Kossola. That book by this anthropologist about Cudjoe Lewis, the last survivor of the Middle Passage, was published posthumously in 2018 with the title *Barracoon*. For 10 points, name this anthropologist whose writings about African-American culture appeared in collections like *Mules and Men*.

ANSWER: Zora Neale Hurston <GE>

6. On astronomical timescales, the eccentricity of this body’s orbit varies chaotically from nearly zero to almost one-half. Most of this body’s surface was first observed by radar telescopes like Arecibo, which identified patches of ice confined to the shaded interiors of polar craters. This body was the target of the first gravity-assist beyond the moon, which was calculated by the namesake of the ESA’s 2018 mission to it. Guiseppi “Bepi” (*) Colombo was also the first to realize that this planet was in a 3:2 [“three-to-two”] orbital resonance. The ability to explain the 43 arcsecond-per-tropical-century discrepancy in the precession of this planet’s perihelion was an early success of general relativity. The MESSENGER and Mariner 10 probes visited—for 10 points—which planet, the closest to the Sun?

ANSWER: Mercury <GH>

7. In one of this director’s films, a drug-addicted doctor becomes obsessed with a woman who has three cervixes. He’s not Peter Jackson but, since 1979, Howard Shore has written the music for all but one of this director’s films. This director cast Jeremy Irons as a pair of gynecologist twins who impersonate each other in the film *Dead Ringers*. In another film by this director, a violent (*) TV program causes the James-Woods-played protagonist to hallucinate a gun growing out of his hand and a VCR slot in his torso. In a 1986 remake by this director, a teleportation accident causes the DNA of Jeff Goldblum’s character to combine with the DNA of the title insect. For 10 points, name this Canadian director whose body horror films include *Videodrome*, *Crash*, and *The Fly*.

ANSWER: David (Paul) Cronenberg <JMA>

8. These entities induce hemidirected coordination in the active site of delta-ALA dehydrogenase and other zinc-dependent enzymes, shielding them from their intended substrate. These entities are created by lead substitution of metal cofactors, directly causing its toxicity. These entities are the electropositive extreme of Bent’s rule and their transfer defines (*) L-type ligands. The preference of lead and tin compounds for +2 oxidation states is part of a trend of post-transition metals forming relatively inert examples of these entities, rather than one extra dative bond. These entities have more repulsion than sigma bonds in VSEPR [“vesper”] theory and cause the bent shape of water. For 10 points, name these entities that are donated by Lewis bases, made of two non-bonding electrons.

ANSWER: lone pairs [or non-bonding pairs before “non-bonding”; or unshared pairs; or inert pairs; accept inert pair effect; prompt on electron pairs; do not accept or prompt on just “electrons”] <GH>

9. This philosopher illustrated his “Formula of Interpretation” with a “Ladder of the Intellect.” The frontispiece of a text by this man shows a ship passing through a pair of columns below two globes with outstretched hands. That book by this man was among the first to describe heat as a form of motion and arranges “tables of presentation” as perceived by the senses. This author of *The* (*) *Advancement of Learning* described defects in reasoning deriving from the “theater,” “tribe,” “cave,” and “market,” which he dubbed “idols.” This man sought to replace Aristotelian logic with his namesake method of “eliminative induction.” For 10 points, what English author’s *Novum Organum* gives an early version of the scientific method?

ANSWER: Francis Bacon <VS>

10. The title of this play originates from Lord Chesterfield's misquotation of a line in *Amphitryon* by John Dryden. The heroine of this play wears modern clothing in the morning and old-fashioned clothing at night, and has a servant named Pimple. In this play's prologue, a crying man declares that "the Comic Muse, long sick, is now a-dying." A matriarch in this play wants her son to marry his cousin so her (*) jewels will stay in the family. This play instead sees that cousin, Constance Neville, become engaged to George Hastings. In order to circumvent his shyness around upper-class women, Charles Marlow is tricked by Tony Lumpkin into believing that a mansion is the Three Pigeons Alehouse in this play. Kate Hardcastle pretends to be a barmaid in—for 10 points—what comedy by Oliver Goldsmith?

ANSWER: *She Stoops to Conquer* <JMA>

11. A propaganda poster supporting *this* force shows one of its members as a giant sitting on rocks with a massive fishing rod. A visit to New York and San Francisco in 1863 by this force gave rise to rumors that it was intervening in the Civil War. This force triggered the expansion of one conflict with a successful attack on the city of Sinope. A major mutiny in this force began after an officer threatened to shoot men who wouldn't eat (*) soup made with maggoty meat. A component of this force, which was responsible for the Dogger Bank Incident, made an insane voyage around Africa and the Indian Ocean only to lose to Togo Heihachiro's force at the Battle of Tsushima Strait. For 10 points, identify this force whose battleship *Potemkin* mutinied during a 1904–1905 war with Japan.

ANSWER: Imperial Russian Navy [or Rossiyskiy imperatorskiy flot; anti-prompt on the Baltic Fleet] <ZF>

12. A staged version of this work ends with the chorus surrounding the main figure, who lies on a wooden box. Peter Sellars created that version of this work in 2010 for the Berlin Philharmonic. A now-lost cantata performed at a funeral in Köthen [KUR-tun] adapted music from this work. In this work's second part, a bass asks to "make my heart pure" and an alto asks "Have mercy on me," in the arias "Mache dich, mein Herze, rein" [MAH-khuh deekh, "mine" "HAIR"-tzuh RINE] and (*) "Erbarme dich" ["air"-BAR-muh deekh]. This work with a libretto by Picander calls for two choruses and two orchestras, and it was first performed outside the St. Thomas Church in Leipzig at an 1829 revival by Felix Mendelssohn. For 10 points, what choral work by Johann Sebastian Bach was written for Good Friday and based on the first of the four Gospels?

ANSWER: *St. Matthew Passion* [or Matthäus-Passion] <MJ>

13. *Description acceptable.* During this event, trying on a diamond ring prompts a would-be assassin to reveal the plot to her target, as depicted in the book *Lust, Caution*. A crisis during this event convinces a divorcée to marry her lover in the title story of *Love in a Fallen City*. Pearl S. Buck's novel *Dragon Seed* is set during this event, during which the novels *Spring* and *Autumn* of the *Torrents Trilogy* were written by Bā Jīn. Pearl's mother Winnie gets married to her abusive husband during the outbreak of this (*) war in Amy Tan's *The Kitchen God's Wife*. In the second part of Murakami's *The Wind-Up Bird Chronicle*, Tōru is told stories about the actions of men like Boris the Manskiner during this war. For 10 points, name this war depicted in novels like Ha Jin's *Nanjing Requiem*.

ANSWER: Japanese occupation of China [prompt on World War II; accept answers like World War II in China; accept Second Sino–Japanese War; accept more specific answers like Battle of Shanghai or Japanese occupation of Hong Kong or Japanese invasion of Manchuria; accept any answer about Manchukuo; accept Rape of Nanking until "*Nanjing*"; accept War of Resistance or Zhōngguó Kàngri Zhànzhēng] <JR>

14. This is the number of lines in a Vedic *anushtubh* stanza, and it's the number of eight-syllable *padas* in each *shloka* of the *Ramayana* and *Mahabharata*. This is the number of chapters, or *adhyāya*, in the *Brahma Sutra*. Hinduism traditionally recognizes a set of *this* number of proper life goals, called *purushārtha*, and Hindu cosmology is built around cycles of *this* many (*) *ashramas*. Social classes like *kshatriyas* and Brahmins were included in a system of *this* many *varnas* or “castes.” A set of *this* number of sacred texts includes the Gāyatrī Mantra and many hymns to Agni and Indra. For 10 points, how many Vedas are there?

ANSWER: four <JR>

15. One president of this country faced a rebellion led by his friend Henry Chipembere after he chose to pursue trade relations with apartheid South Africa. During World War I, the evangelical pastor John Chilembwe led an uprising against white settlers in this country's Shire [SHEE-ray] Highlands. David Livingstone founded this country's commercial capital of Blantyre as a mission station. This country's first president discriminated against its (*) Yao and Tumbuka ethnic groups in favor of his Chichewa people. Before the independent government of Hastings Banda took power, this country was united with Rhodesia in the “Central African Federation.” For 10 points, name this country formerly known as Nyasaland, whose capital was moved to Lilongwe in 1975.

ANSWER: Republic of Malawi <JM>

16. The halophilic *Alcanivorax borkumensis* uses a pair of mono-oxygenases to metabolize this substance. The ability to degrade three components of *this* substance known collectively as BTX motivated a patent for *Pseudomonas putida*, the first ever for an organism. Mixing COREXIT [“co-rexit”] with this substance increases its toxicity by accelerating the accumulation of P·A·Hs. This substance can interfere with the (*) scent of seal pups, causing abandonment. This substance can be concentrated in containment booms to help skimmers remove it and aid bioremediation by bacteria. Dispersants spread slicks of this substance throughout the water column. Animals can get hypothermia when coated with—for 10 points—what pollutant that was released into the environment by incidents like the *Deepwater Horizon* spill?

ANSWER: crude oil [or petroleum; accept alkane or polycyclic aromatic hydrocarbons before “PAHs” and prompt afterwards; prompt on gasoline or kerosene] <JS>

17. A 1992 book analyzing a particular culture at these institutions features chapters like “Working a Yes Out” and was written by Peggy Sanday. David Riesman and Christopher Jencks criticized a certain type of these institutions as “disaster areas” in a 1967 paper. For a 2019 book, Anthony Jack interviewed dozens of low-income people in these institutions to investigate how they fail the (*) “privileged poor.” Work by David Lisak shows that perpetrators of a certain crime at these institutions impact an average of 14 victims each. A book by William Bowen posits that MOOCs could help keep costs low at these institutions. In 2019, a Massachusetts court ruled that one of these institutions was not biased against Asian-Americans in its admissions process. For 10 points, name these institutions of higher education.

ANSWER: colleges [or universities, accept specific types of colleges like Historically Black Colleges/Universities, not-for profit colleges or for-profit colleges; accept fraternities until “disaster areas” is read and prompt afterward; prompt on schools] <WG>

18. **This man's vice president had to be elected by the senate after Virginia's electoral college delegation refused to vote for him, causing a deadlock. A political cartoon that helped ensure his electoral defeat shows this man enjoying "a beautiful goblet of White House champagne." John Fairfield triggered a diplomatic crisis during this man's presidency by sending settlers into disputed territory. Charles (*) Ogle attacked this man in his "Gold Spoon Oration." This man led his party's "bucktail" faction, which was formed to oppose DeWitt Clinton. This 1848 presidential candidate for the Free Soil party largely continued his predecessor's Indian Removal policies. Inept handling of the economy after the Panic of 1837 helped doom—for 10 points—what president who lost to William Henry Harrison in 1840?**

ANSWER: Martin Van Buren <PJO>

19. **In scattering processes, this phenomenon causes the asymmetric line shape of a Fano resonance. At high levels of disorder, this phenomenon causes Anderson localization of electrons in a lattice. Two QWPs can prevent this phenomenon's formation by detecting information about a particle generated via spontaneous parametric down-conversion. This phenomenon between the output of two or more (*) SNS junctions is used to measure magnetic flux in a SQUID. This phenomenon can be used to study a sample that is inserted into one of two optical paths in a device invented by Mach and Zehnder. This phenomenon causes intensity to depend on two waves' phase difference. The superposition principle explains—for 10 points—what phenomenon that can be constructive or destructive?**

ANSWER: quantum interference [accept superposition until "superposition"; accept interference pattern] <JS>

20. **"Silence itself" is the speaker of the "Fourth and Final Chapter" of one poem by this author, who wrote that it "does not contain any third, seventh, or twenty-ninth meanings." In another poem, this poet contrasts Mary Magdalene tearing out her hair with the "silent and alone" Virgin Mary. This poet remarks that "The hellish harlequinade from 1913 has passed" in a section set at this poet's home, the Fontanka House. Prose sections like (*) "Instead of a Foreword" and "Instead of a Preface" open this poet's two most famous poems. This poet's son cries "Weep not for Me, Mother" in the Crucifixion section of a poem about his 17-month internment in a Stalinist labour camp. For 10 points, identify this Russian poet of "Poem Without a Hero" and "Requiem."**

ANSWER: Anna Akhmatova [or Anna Andreyevna Gorenko] <ES>

2020 WORKSHOP

Packet 2

Bonuses

1. Stuart Gilbert and his publisher Hamish Hamilton disagreed about the title for his work of this kind. For 10 points each:

[10] Identify this kind of work, one of which was completed by Matthew Ward for Vintage Publishing. Ward's work of this kind uses the word "benign" instead of "gentle" to describe the "indifference of the universe."

ANSWER: English **translations** of *The Stranger* [accept obvious equivalents]

[10] *The Stranger* is a work by *this* French existentialist author of *The Plague*.

ANSWER: Albert **Camus**

[10] Ryan Bloom has suggested that *this* sentence, the novel's first, has a better translation. Bloom argues that this sentence should better represent Meursault as a person who "lives in the moment" and "does not consciously dwell on the past."

ANSWER: "**Mother died today**" [accept "**Maman died today**" or "**Today, Maman died**" or "**Aujourd'hui, Maman est morte**" or any variant thereof] <CM>

2. A father-son pair of architects named John Wood designed buildings in this style like Queen Square, the Circus, and the Royal Crescent. For 10 points each:

[10] Name this classicizing style of English architecture that features prominently in the city of Bath. Its late phase is typically dubbed "Regency," which corresponds to the Federal Style of the early United States.

ANSWER: **Georgian** Architecture

[10] John Nash, one of the foremost architects of the Georgian era, designed *this* royal residence in Brighton. This building has a unique Indo-Saracenic exterior featuring domes and minarets, and an interior full of Chinoiserie.

ANSWER: Royal **Pavilion**

[10] The Georgian style was preceded by the English Baroque style exemplified by *this* London cathedral, which was rebuilt with a double dome by Christopher Wren after the Great Fire in 1666.

ANSWER: **St Paul's** Cathedral <JMA>

3. A general-purpose quantum chemistry suite developed by John Pople performs *this* technique more efficiently by using the properties of a namesake type of function. For 10 points each:

[10] Name this technique that produces a result centered at the centroid when using a Gaussian basis set. This technique can use functions named for Slater, and the Hartree-Fock method can be used to find its weights.

ANSWER: **LCAO** [or **linear combination of atomic orbitals**; prompt on Hartree-Fock method before read]

[10] These constructs result from performing a linear combination of atomic orbitals. They are categorized as either bonding or antibonding based on whether their energy is higher or lower than their constituents.

ANSWER: **molecular orbitals** [or **MO** theory; prompt on orbitals]

[10] The Gaussian suite uses MOs in *this* type of ab initio method, which calculates correlation explicitly. Moving to higher tiers of these methods takes progressively longer, but is more accurate than DFT for simple molecules.

ANSWER: **perturbation theory** [accept Møller-Plesset or Rayleigh-Schrödinger **perturbation theory**; prompt on MP2, MP3, MP4, or Møller-Plesset with "What type of method is that?"] <VF>

4. In an annual procession, an image of *this* god made from a wooden stump is accompanied by his brother Balabhadra and his sister Subhadra, who are carried in three huge carts pulled by worshippers. For 10 points each:
[10] Name this god whose temple in Puri is the sight of a massive Ratha Yatra. His name means “lord of the universe.”

ANSWER: **Jagannatha**

[10] Jagannath is considered a form of *this* god, or sometimes of this god’s avatar Krishna.

ANSWER: **Vishnu**

[10] A special form of *this* practice at the Jagannath Temple features fifty-six different food items. This general term refers to the distribution of food to worshippers *after* it is offered as a puja.

ANSWER: **prasada** [accept *mahaprasada*] <GH>

5. Yoweri Museveni and Paul Kagame helped one leader with this last name seize power, before invading again the next year in an attempt to overthrow him. For 10 points each,

[10] Give this last name of Laurent-Desire, who became the leader of his country in 1997, and his son Joseph, who took power after his father was assassinated in 2001 by a former child soldier.

ANSWER: **Kabila**

[10] Laurent-Desire Kabila ousted Mobutu Sese Seko to become the leader of *this* country, formerly known as Zaire.

ANSWER: **Democratic Republic of the Congo** [prompt on Congo; accept **Congo-Kinshasa**; do not accept or prompt on “Republic of the Congo”]

[10] During his tenure, Mobutu enacted a state campaign with *this* name against Western culture. Under this policy, Leopoldville was renamed Kinshasa and Western suits were banned and replaced by the *abacost*.

ANSWER: **Authenticité** [accept **authenticity** or **Zairianisation**] <JMA>

6. The Salwa Judum militia, which was state-funded until it was proscribed by a 2011 Supreme Court decision, opposes this movement. For 10 points each:

[10] Name this movement, one of whose leaders, Kishenji, was killed that same year by members of the Commando Battalion for Resolute Action.

ANSWER: **Naxalite** [accept but **do not otherwise reveal Communist Party of India (Maoist)**; prompt on **Communist Party of India (Marxist-Leninist)**; do not accept or prompt on any other variation of “Communist Party of India”]

[10] The Naxalites operate as a Maoist insurgency in the so-called “Red Corridor” of *this* country, and trace their origin to a 1967 uprising in its state of West Bengal.

ANSWER: Republic of **India** [accept **Bhārat** Gangarājya]

[10] The “Red Corridor” includes the eastern part of *this* most populous state of India, whose capital is Lucknow.

ANSWER: **Uttar Pradesh** [or **UP**] <ZK>

7. This man is described as having a Rutlandshire grandmother and not being “much in the social sense.” For 10 points each:

[10] Identify this person who Stevie Smith invites to “bring [her] thoughts to an end.” Thomas de Quincey thought that this character might represent its creator’s doctor, P. Aaron Potter.

ANSWER: the **Person from Porlock**

[10] The Person from Porlock legendarily disrupted the writing of *this* poem by Samuel Taylor Coleridge, which describes Xanadu, a land where “Alph, the sacred river” runs “Down to a sunless sea.”

ANSWER: “**Kubla Khan**”

[10] This critic disparaged Coleridge, claiming that he “lived on the sound of his own voice” in a collection of critical biographies titled *The Spirit of the Age*.

ANSWER: William **Hazlitt** <ES>

8. In one poem, this concept “dances like a Bomb” during “moments of escape” and “feels some ghastly Fright come up” during “Bandaged moments”. For 10 points each:

[10] Name this concept. In another poem, this concept is “unmoved” as she “notes the Chariots — pausing — at her low gate”.

ANSWER: **souls** [accept “The **Soul** selects her own Society”]

[10] Emily Dickinson, who wrote “The Soul selects her own Society,” also often anthropomorphized *this* concept. In one of her poems, this concept “kindly stopped” for the narrator, who rides in a carriage with it and Immortality.

ANSWER: **death** [accept “Because I could not stop for **Death**”]

[10] This concept brings on “a formal feeling” in another Dickinson poem, in which this concept causes “First Chill — then stupor — then the letting go.” That poem about this concept titles a biography of Dickinson by John Cody.

ANSWER: **pain** [accept “After great **pain**, a formal feeling comes”] <RZ>

9. *Note to moderator: Read the whole answerline before judging an answer.*

The results of this task are compared to experimental circular dichroism spectra. For 10 points each:

[10] Name this task performed by tools like DSSP and STRIDE. This task uses knowledge of atomic coordinates to find 3_{10} [$^3 10$] and pi structures. A description is fine.

ANSWER: **assigning secondary structure** of a protein [or **predicting secondary structure**; accept answers indicating the **assignment**, **definition**, **description**, or **identification** of a protein’s **secondary structure**; prompt on answers lacking “secondary” like **predicting protein structure**]

[10] DSSP calculates the most likely secondary structure based on the energy of *these* interactions. These intermolecular interactions typically occur between their namesake element and the electronegative nitrogen of peptide bonds.

ANSWER: **hydrogen bonds** [or **H-bonds**]

[10] These quantities are second in importance to hydrogen bonds when assigning secondary structure. STRIDE assigns each sequence a propensity to be an alpha-helix or beta-sheet based on its location on a Ramachandran plot, which plots these quantities against each other.

ANSWER: dihedral **angles** [or torsional **angles**; accept **dihedrals**; prompt on **psi** or **phi**] <JS>

10. Miles Davis pioneered this style with the albums *In a Silent Way* and *Bitches Brew*. For 10 points each:

[10] Name this broad style whose other developers include Chick Corea and Herbie Hancock. Mahavishnu Orchestra founder John McLaughlin helped create this style with playing on electric guitar.

ANSWER: jazz **fusion** [prompt on **electric jazz**]

[10] Herbie Hancock plays a synthesizer solo on “And the Melody Still Lingers On,” which is *this* singer’s jazz fusion cover of “A Night in Tunisia.” This “Queen of Funk” fronted the band Rufus early in her career.

ANSWER: Chaka **Khan** [or Yvette Marie **Stevens**]

[10] “A Night in Tunisia” is often used as a showcase for *this* member of the rhythm section, who often plays using brushes and can adopt either a “matched” or “traditional” grip” for the sticks.

ANSWER: **drummers** <VD>

11. Mission Estate, a location where *this* good was produced, was established by Catholic missionaries in the early 1850s. For 10 points each:

[10] Name this agricultural good introduced to British colonies by James Busby. Its Sauvignon blanc [soh-veen-yaw BLAWK] variety is produced in the Marlborough region.

ANSWER: **wine** [prompt on **grapes** by asking “What are the grapes used to make?”]

[10] New Zealand’s wine industry rapidly grew in the 1980s following an agricultural subsidy cut that was part of *this* set of liberalizing economic policies. These policies tried to reduce New Zealand’s dependence on the UK.

ANSWER: **Rogernomics**

[10] Several countries responded to *this* policy with wine boycotts. To protest this policy, New Zealand’s HART movement invaded rugby fields during a 1981 series of matches against the country that practiced it.

ANSWER: **apartheid** <CS>

12. Finding this element’s emission lines in the spectra of some S-type red giants provided the first proof of stellar nucleosynthesis. For 10 points each:

[10] Name this first element to be discovered by synthesis. This is the lightest element with no stable isotopes, and its instability is caused by the Mattauch isobar rule.

ANSWER: **technetium** [or **Tc**]

[10] Technetium-97 can only decay by capturing one of *these* particles, so fully ionizing it can infinitely protect it from decay. Lighter isotopes can capture one of these particles or emit a positron, its antiparticle.

ANSWER: **electrons** [accept **electron** capture]

[10] A form of technetium-99 with *this* property is used as a tracer in medical imaging, since it emits a gamma ray when decaying. A form of tantalum-180 with this property has an incredibly long half-life due to its high spin.

ANSWER: **metastability** [or **excited** state; accept word forms but do **not** accept or prompt on answers mentioning “stability” alone] <GH>

13. This painter used Ottoman slaves as models for several watercolor paintings of Greek goddesses. For 10 points each:

[10] Name this painter who drew on Tintoretto’s *Origin of the Milky Way* in 1869’s *Venus Rising from the Sea*. One of his interior designs uses blue-green paint and extensive gold leaf.

ANSWER: James (Abbott) McNeill **Whistler**

[10] Whistler painted *The Peacock Room* to alleviate his bankruptcy from a libel suit against *this* English critic. This man decried Whistler’s *Nocturne in Black and Gold: The Falling Rocket* as “flinging a pot of paint in the public’s face.”

ANSWER: John **Ruskin**

[10] Thomas Carlyle agreed to model for Whistler’s second *Arrangement in Grey and Black* after seeing the first one, which depicts *this* family member of Whistler staring to the left while wearing a white bonnet.

ANSWER: his **mother** [or **Anna** McNeill Whistler; accept clear equivalents] <GE>

14. This term was used to refer to the Christian God in the English version of the Huron Carol. For 10 points each:
[10] Give this term from several Algonquian languages for a “spirit” or “mystery.” The Ojibwe term for “Great Spirit” prefaces this word with “Gitche.”

ANSWER: (Gitche) **Manitou** [or **manidoo**] (Of “Manitoba” and “Manitoulin” fame.)

[10] Gitche Manitou is central to the tradition of *Midewiwin*, which is often translated as a “Grand” society of *this* concept. This English-language term is used by many Native American groups to refer to spiritual healing and those who practice it.

ANSWER: **medicine** [accept **Grand Medicine Society**]

[10] In some traditions, *midewiwin* originated thanks to instruction by the Spirit of *this* celestial body. Many Plains Indians groups perform a “dance” to win over this heavenly object.

ANSWER: **Sun** [or **Sol**; accept **Sun Dance**] <JR>

15. The first of these people to use a certain route was a hermit named Pelayo who convinced Bishop Theodemir to excavate a tomb marked by a ray of light in the forests of Iria. For 10 points each:

[10] Name these people who traded and collected scallop shells to pay for provisions. St. Dominic of the Causeway allegedly resurrected one of *these* people who was framed for theft alongside two chickens.

ANSWER: **pilgrims** [accept synonyms like **visitors** to a **shrine**; answers need to specify **travelers** for **religious reasons**]

[10] Those pilgrims were traveling to *this* capital of Galicia, which is home to the remains of the Patron Saint of Spain. “El Camino” included the French Way over the Pyrenees to visit this city.

ANSWER: **Santiago de Compostela** [accept **St James of Compostella**; prompt on partial answer]

[10] This pope’s Codex was the first to record the scallop shell tradition and document other pilgrim traditions. This pope settled the Investiture Controversy with Holy Roman Emperor Henry V at the 1122 Concordat of Worms.

ANSWER: Pope **Calixtus II** [accept **Callistus II**; or **Guy** of **Burgundy**; prompt on just **Calixtus** or **Callistus**] <ZF>

16. This philosopher was expelled from the University of Jena [YAY-nuh] on charges of atheism. For 10 points each:

[10] Name this Idealist philosopher who created a “doctrine of scientific knowledge” called *Wissenschaftslehre* [VISS-en-shahfts-LAY-ruh] and also wrote *Attempt at a Critique of All Revelation*.

ANSWER: Johann Gottlieb **Fichte**

[10] This book by Fichte claims that philosophy must begin with a “fact” that is also an “act,” called a *Tat-handlung*. It is addressed to “anyone capable of understanding a book.”

ANSWER: *The Vocation of Man* [or *Die Bestimmung des Menschen*]

[10] Fichte’s claim that “the I posits itself absolutely” is a response to *this* earlier thinker’s dualist conception of the mind. This man argued that “cogito ergo sum,” or “I think, therefore I am.”

ANSWER: René **Descartes** <VS>

17. In a debate, Betty Friedan once told this activist “I’d like to burn you at the stake” and called her a “traitor to her sex.” For 10 points each:

[10] Name this founder of the anti-feminist Eagle Forum. This activist’s most notable campaign successfully blocked the Equal Rights Amendment, which would have banned legal distinctions between men and women.

ANSWER: Phyllis **Schlafly**

[10] Schlafly’s 1964 book *A Choice, Not an Echo* was crucial in driving support for *this* right-wing Arizona senator in that year’s Republican primary. This man would go on to lose the general election to Lyndon Johnson.

ANSWER: Barry M(orris) **Goldwater**

[10] Schlafly agreed with *this* incendiary 1965 text, which blamed “the matriarchal structure of black culture” for the high rate of black poverty.

ANSWER: *The Negro Family: A Case for National Action* [or **Moynihan** Report] <ZK>

18. Enrique González Martínez commanded poets to “Wring the neck of” one of these animals. For 10 points each:
[10] Name this animal that brings “a new dawning, and a new life” when it begins to sing. The author of *Azul*...wrote that “the new Poetry” conceives a new ideal under the wings of this animal.

ANSWER: **swans** [or “El **Cisne**”]

[10] Rubén Darío used the swan as the primary symbol of *this* Parnassian- and Symbolist-inspired Latin American poetry movement that began in the late 19th century.

ANSWER: **Modernismo** [do not accept or prompt on “modernism”]

[10] This later Chilean poet claimed that he felt like a swan made of felt in his poem “Walking Around,” and imagined “A swan, a tree, something far away and happy” in one of his *Twenty Love Poems*.

ANSWER: Pablo **Neruda** <ES>

19. According to the Arrow-Debreu model, an exchange economy with convex demand curves and indistinguishable goods results in *this* state when utility is maximized. For 10 points each:

[10] Name this state. In a two-person economy, this state occurs at any point at which total consumption is equal to the original endowment. This state can take a “corner solution” with linear demand curves.

ANSWER: **competitive equilibrium** [both underlined parts required, accept **Walrasian equilibrium** or **partial equilibrium**; prompt on just **equilibrium**]

[10] All competitive equilibrium points are characterized by an optimality named for *this* Italian polymath, in which no individual can be made better off without harming another individual.

ANSWER: Vilfredo **Pareto** [or Vilfredo Federico Damasco **Pareto**]

[10] In cooperative game theory, *this* measure of each player’s marginal contribution determines allocations of initial endowments. This value is the average contribution of one player across all different possible coalition sizes.

ANSWER: **Shapley value** <GE>

20. Unlike a similar language, this language is non-deterministic. For 10 points each:

[10] Name this hardware description language that uses `always` blocks to implement sequential circuits. Rather confusingly, `reg` [“redge”] variables in this language may not correspond to physical registers.

ANSWER: **Verilog** [accept System**Verilog**; accept **Verilog-AMS**]

[10] Verilog was designed to have a syntax similar to *this* programming language. An object-oriented language based on this language was developed by Bjarne Stroustrup, who appended a ‘++’ [“plus plus”] operator to its name.

ANSWER: **C** [or **C++**; accept **C**-like languages]

[10] In Verilog, one type of *this* circuit is written as a positive-edge triggered `always` block that sets the output to 0 if the reset is high or to the D input otherwise. This simple sequential circuit can store one bit of information in its two stable operating states.

ANSWER: D-**flip-flop** [or data **flip-flop** or delay **flip-flop**; accept **latch** in place of flip-flop] <JS>

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