

## 2021 ARCADIA 🐉

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**Packet 2:** I was gonna go to Sakai to pull up a reading for a class, but I just went to aseemsDB by instinct.

Tossups

1. **The omission of a dove above a character with this profession drew objection from Hans Knappertsbusch in one minimalist operatic staging. An opera titled for a character with this profession features a four-string keyboard instrument that uses hammers to evoke bells. An Act 3 English horn solo imitating a shepherd's pipe foreshadows the death of a character with this profession. (\*)** “Good Friday Music” and a theme based on the Dresden amen appear in an opera named for a character with this profession. A “longing” F, B, D-sharp, and G-sharp comprise a dissonant chord nicknamed for a character with this profession. The lover of that character with this profession sings the “Liebestod” over his corpse. For 10 points, the Wagnerian tenors Parsifal and Tristan, based on Arthurian characters, hold what profession?

ANSWER: **knights** [prompt on soldiers or noblemen by asking, “What specific profession do they have in the opera?”]

<RW, Other Arts: Opera and Musical Theater>

2. **“Timeless time” and a global “space of flows” characterize a society based on these things, whose “Rise” titles the first volume of Castells’s *Information Age* trilogy. Duncan Watts uses a binary decision model introduced by Abhijit Banerjee to show how “information cascades” propagate through these things. These things name the effect in which the value one derives from a good depends on the number of (\*) other users.** In his work on these structures, Mark Granovetter uses evidence from job-searchers to argue for the strength of “weak ties” between clusters in these structures. These structures are often visualized as graphs, in which the path length between nodes is the number of degrees of separation. For 10 points, name these webs of social connections exemplified by Facebook.

ANSWER: social **networks**

<VD, Social Science: Sociology>

3. **The dual of the Hardy space  $H^1$  is the set of functions whose mean oscillation has this property. For linear operators on normed vector spaces, this property is equivalent to continuity, and every linear functional with this property can be extended from a subspace to the entire space. The Archimedean property implies that the naturals lack this property in the reals. Complex functions that are holomorphic everywhere and have *this* property are constant by (\*) Liouville’s theorem. Subsets of  $\mathbb{R}^n$  that are closed and have this property are compact. Every monotone sequence with this property converges. The supremum of a set is the “least upper” value with this relation to the set.** For 10 points, give this property possessed by sequences such that each of their elements is less than some value  $b$ .

ANSWER: **bounded** [accept word forms; accept answers like **bounded** above or below or having an upper or lower **bound**]

<VD, Other Science: Math and Computer Science>

4. **Arguments emerging from “moots” intended to discuss the extension of this cause “all round” were published in the periodical *The Round Table*. John Bright coined a slogan to oppose this cause, punning on supposed subservience to the Catholic Church. The “Hawarden Kite” revealed a politician’s move to support this cause. A policy known as “Killing [this cause] With Kindness” was instituted by Arthur (\*) Balfour. Lord Salisbury ascended to the premiership in 1886 with support from rogue Liberal Unionists, who opposed this cause.**

William Gladstone split the Liberal Party over this issue after assenting to demands by Charles Parnell to create a subordinate assembly. For 10 points, name this goal of supporting Irish self-governance within the United Kingdom. ANSWER: **Home Rule** [accept **Irish self-government** or word forms until “Irish” is read; prompt on **Irish independence**] (Bright coined the slogan “Home Rule Means Rome Rule.”)  
<GP, British/Commonwealth History>

5. A man at one of these places carries a “blue Henry” and lets his cousin look at a picture of his heart. A scene from the novel *The Tanners* parallels its author’s death from a heart attack in the snow outside one of these places in Herisau. Novels such as *The Robber* were produced in minuscule handwriting at one of these places, as collected in *Microscripts*. A pig-drawing contest occurs at a (\*) Walpurgisnacht party in one of these places, where a man seduces a woman who later falls in love with Mynheer Peeperkorn. The protagonist of a novel listens to Settembrini and Naphtha’s philosophical debates in one of these places while visiting his sick cousin Joachim Ziemssen. For 10 points, Hans Castorp stays in what type of facility in Thomas Mann’s novel *The Magic Mountain*?

ANSWER: **sanatoriums** [or **sanitariums**; accept **tuberculosis hospitals**; prompt on **asylums** or **hospitals**; prompt on *The Magic Mountain*] (The author of the works in the early clues is Robert Walser.)  
<RW, European Literature>

6. A periodically-poled nonlinear niobate crystal of this element is used for second harmonic generation. Most spinel and olivine nanostructures of this element have higher energy densities than its conventional cobalt oxide. This element is the lightest one that can be easily detected with X-ray photoelectron spectroscopy. Cations of this element flow through a solid electrolyte interface and become intercalated in a graphite anode in one device. An organic compound bonded to this element is reacted with a (\*) copper salt to form a Gilman reagent. Wittingham, Yoshino, and Goodenough won the 2019 Nobel Prize in Chemistry for developing a rechargeable battery named for this element that is often used in electric cars. For 10 points, name this lightest alkali metal, which has atomic number 3.

ANSWER: **lithium** [or **Li**; accept **lithium-ion battery**]  
<VD, Chemistry>

7. This artist used warm-toned “Japan paper” for a series of drawings based on paintings of Shah Jahan and other Mughal dignitaries. William Baillie attempted to restore a plate by this artist with a scene inspired by Matthew 19. This artist leans confidently on a stone sill in a self-portrait inspired by Titian’s portrait of a man with a blue, quilted sleeve. This artist used heavy chiaroscuro to depict Jesus healing the sick in the (\*) *Hundred Guilder Print*. This artist’s contemplative late works include a depiction of his son in a monk’s habit, and a pearl-wearing, red-clad woman identified as a *Jewish Bride*. This artist wears a beret and sits with his wife Saskia in one of his numerous self-portraits. For 10 points, name this skilled draughtsman, who also painted *The Night Watch*.

ANSWER: **Rembrandt** [or Rembrandt Harmenszoon **van Rijn**]  
<AY, Visual Arts>

8. Carolina Mera and Mirta Bialogorski study the Korean diaspora in this country, whose presence disrupted the traditionally Jewish garment industry in Avellaneda (“AH-vay-yuh-NAY-duh”). Traditional elites in this country historically deplored, in a so-called “zoological flood,” the return of *cabecitas negras* to cities. Increased racial homogenization of this country resulted from General Julio Roca’s campaign against native populations, the (\*) “Conquest of the Desert.” A 2019 trial over the cover-up of a 1994 bombing of the AMIA (“A-M-I-A”) Jewish Center in this country exonerated former president Carlos Menem. Mossad agents kidnapped Adolf Eichmann in this country, extraditing him to Israel. For 10 points, name this country where former Nazis were sheltered by the government of Juan Perón.

ANSWER: **Argentina** [or **Argentine** Republic or República **Argentina**]  
<GP, World History>

9. This story describes “flocks of crows...like so many grains of sesame” appearing at the title place, where a man in this story notices crow droppings while waiting for the rain to stop. At the end of this story, a woman looks down a flight of stairs, seeing “darkness...unknowing and unknown.” A character in this story feels “a certain courage born in his heart” while scratching at a large pimple on his cheek. Another character in this story claims that a (\*) dead woman deceitfully sold snake flesh to city guards and passed it off as dried fish. In this story, a starving servant holds an old woman at knifepoint and then steals her clothes, after he catches her robbing corpses of their hair to make wigs. For 10 points, name this Ryunosuke Akutagawa story titled for a gate in Kyōto.

ANSWER: “**Rashōmon**”

<HG, World Literature>

10. Hamilton and Kahn cited a baseball stadium in this non-Cleveland city as an outlier to the trend of taxpayer-funded stadiums being economic burdens to cities. That idea is termed “feeding the downtown monster” in *Spaces of Hope* by David Harvey, who initiated a social justice movement while teaching in this city. The Power Plant Live! Complex was formed as part of a long-term urban renewal in this city along with an HOK-designed stadium that sparked a 1990s (\*) retro ballpark movement. Near the Patapsco River, the construction of M&T Bank Stadium and Camden Yards sought to renew this city’s Inner Harbor. The lowest point on I-95 is in the Fort McHenry Tunnel in this city. For 10 points, name this Chesapeake Bay city, the most populous in Maryland.

ANSWER: **Baltimore**

<AS/GP, Geography>

11. During one ritual, Orthodox Christians offer examples of this thing along with their family diptychs to priests, who place them on a side altar next to more examples of this thing representing the Virgin and “nine ranks” of saints. Five examples of this thing are blessed during the *artoklasia*. While lining up for the kissing of the cross, members of a congregation receive the *antidoron*, an example of this thing. A cubic example of this thing is stamped with the letters “IC XC NIKA” (“I-C X-C NEE-kuh”), meaning “Jesus Christ Conquers.” That example of this thing is known as the (\*) *amnos*, or Lamb, and is laid on a *diskos*. During the *proskomedia*, Eastern Orthodox priests prepare this thing, which is consecrated alongside wine during the *anaphora*. For 10 points, name this leavened substance which, in the Eucharist, is the body of Christ.

ANSWER: **bread** [accept leavened **bread**; accept sacramental **bread**; accept **host**; prompt on Lamb until read; accept **prosphoron** or **prosphora**; prompt on Eucharist until read]

<GP, Beliefs>

12. A general during this conflict was called “The Upholsterer of Notre Dame” for shipping hundreds of captured flags to Paris. During this conflict, French forces first attempted firing artillery at low angles to skip across the battlefield, a technique known as “ricochet fire,” during the Siege of Philippsburg. The first French *tontine*, a type of annuity increased by contributors’ deaths, raised funds for this conflict. Dutch soldier (\*) Menno van Coehoorn (“COO-horn”) and his French counterpart, the Marquis de Vauban, engineered respective sieges of Namur during this conflict. A namesake Swabian alliance began this conflict to oppose the expansionary wars of Louis XIV. For 10 points, name this conflict ended by the Peace of Ryswick and named for the period from 1688 to 1697.

ANSWER: **Nine Years’ War** [or War of the **League of Augsburg** or War of the **Grand Alliance**] (The “Upholsterer of Notre Dame” is Henri de Montmorency, Duke of Luxembourg.)

<GP, European History>

13. A deity of this domain and his son Revanta are unusually often depicted with tall boots, as opposed to bare feet. In one story, Visvakarma used material collected from a god of this domain to create Shiva’s trident. The wife of a god of this domain temporarily left him and took the form of a mare, leaving Chaya in her place.

**Twelve enormous wheels adorn a temple to a deity of this domain located at Konark. In Hindu temples, the likeness of a god of this domain is placed at the center of the (\*) Navagraha.** A prayer to a god of this domain opens “*om bhur bhuvah svah*” and is recited as a boy receives a sacred thread in the *upanayana* ceremony. This domain is invoked in the Gayatri Mantra, while a set of twelve yogic postures comprise a “salute” to this domain. For 10 points, radiant horses draw the chariot of Sūrya, a god of what celestial body?

ANSWER: the **sun** [accept **sun**light or **solar** energy; accept **Ravi** or **Sūraj** or **Nyāvīru** or **Sūriyo**; accept **Sūrya** or **Savitṛ** until “Sūrya” is read]

<AS, Beliefs>

**14. This author’s “womanlike” history starts with one woman asking for another’s underwear. A Mississippi lady with mangled legs is described in an essay by this author that argues that the civil rights movement isn’t dead. This author is angry that she cannot purchase Ebony Mist in one essay. Four definitions of womanism open this author’s collection *In (\*) Search of Our Mothers’ Gardens*.** This author puts a tombstone inscribed “Genius of the South” on an unmarked grave in the essay “Looking for Zora.” After scarring his face to match Tashi’s, Adam leaves Africa to reunite with his mother in a novel by this author. In a novel by this author, Nettie sends letters to her sister, who becomes Shug Avery’s lover. For 10 points, name this author who wrote about Celie in *The Color Purple*.

ANSWER: Alice **Walker** [or Alice Malsenior Tallulah-Kate **Walker**] (The unnamed essays described are “Writing The Color Purple” and “The Civil Rights Movement: What Good Was It?.”)

<CM, American Literature>

**15. Pippard’s generalization of London theory uses this statement to derive the superconductor coherence length. The choice of “ $h$  to the  $3N$ ” as a unit of phase space volume in the microcanonical partition function is justified using this statement. The limiting case predicted by this statement is visualized by noting that a delta function in real space is a constant function in reciprocal space. Coherent states achieve the lower bound set by this statement, which limits the lifetime of (\*) virtual particles.** The zero-point energy of the quantum harmonic oscillator is due to this statement, which applies to any two non-commuting observables. The product of two standard deviations appears in, for 10 points, what statement from quantum mechanics that limits the simultaneous measurement of position and momentum?

ANSWER: **Heisenberg** uncertainty principle [or Heisenberg **uncertainty** principle]

<VD, Physics>

**16. Some species of *Eigemmania* and *Gymnarchus* alter their output of this stimulus in a jamming avoidance response. Neofunctionalization of the protein Scn4aa may underlie the convergent evolution of communication via this stimulus in *Mormyridae* and *Gymnotidae*. High calmodulin expression and varying expression of sodium-potassium pumps in the stacked, disc-shaped cells of the main organ, Hunter’s organ, and Sachs’s organ facilitate production of this stimulus in one genus. Aside from detecting vibration and motion, the (\*) lateral line system innervates a set of mucus-filled pores that detect this stimulus, the ampullae of Lorenzini. Those ampullae facilitate sharks’ “sixth sense” of detecting this stimulus. For 10 points, name this stimulus famously discharged by a South American eel species.**

ANSWER: **electricity** [accept **electroreception** or **electrocommunication** or **electrolocation** or **electromagnetism**; accept **electric** fields; accept **electric** potential]

<KT/HK, Biology>

**17. One poem asks, “do not let me hear of” these people, but rather of their “fear of frenzy” and “fear of possession.” One of these people is “driven by the trades to a sleepy corner” in a poem whose narrator describes “Fräulein von Kulp / who turned in the hall,” then notes himself as this sort of person, a “dull head among windy spaces” in a “draughty house.” One of these people is being read to by a boy while (\*) “waiting for rain” “in a dry month” in a poem that T.S. Eliot considered using as a preface to *The Waste Land*.** This sort of

person is called “a paltry thing, a tattered coat upon a stick” in a poem whose opening line refers to these people and titles a Cormac McCarthy novel. For 10 points, W.B. Yeats’s poem “Sailing to Byzantium” begins, “That is no country for,” what sort of men?

ANSWER: **old** men [or **aged** men; accept gender-neutral alternatives; prompt on men] (The poem in the first line is “East Coker,” and the other Eliot poem is “Gerontion.”)

<HG, British Literature>

18. Foreign Service officer James Akins wrote an influential *Foreign Affairs* article on this industry subtitled “Now the Wolf is at the Door.” Daniel Yergin won the 1992 Pulitzer Prize in History for a history of this industry titled *The Prize*. An executive in this industry negotiated the first US-Soviet trade agreement and was pardoned for illegal Nixon campaign contributions; that executive in this industry was Armand Hammer. Iterative five percent supply cuts in this industry were announced on the day of the (\*) Saturday Night Massacre. An artificial supply shock in this industry occurred shortly after the beginning of the Yom Kippur War. For 10 points, name this industry whose two crises in the 1970s were caused by the Iranian Revolution and a Gulf States embargo.

ANSWER: **oil** industry [accept **petroleum** industry; prompt on energy industry or gasoline industry]

<RR, American History>

19. The “center” has become a “non-locus” that undergoes infinite substitution of these things, according to an essay that identifies an “event” in the history of the concept of structure. In *Of Grammatology*, Derrida identifies Heideggerian Being with a “transcendental” component of one of these things. Baudrillard (“boh-dree-YAR”) describes a four-stage transition of these things from a “sacramental order” to “pure simulacrum.” In deconstruction, each of these things contains a (\*) “trace” of what they are not, upon which their meaning depends. Saussure’s theory of language identifies words as these things, consisting of a sound-image and the concept they represent. C.S. Peirce classified these things as indexes, icons, and symbols. For 10 points, semiotics is the study of what things that communicate meaning?

ANSWER: **signs** [accept **images**; anti-prompt (ask, “Can you be less specific?”) on signifier or signified; prompt on words or symbols until read]

<VD, Philosophy>

20. Before its American premiere, the composer of this piece wrote a letter to the New York Philharmonic explaining the use of its namesakes as a “point of departure” rather than an impression. “Children at play” in this piece’s first movement sing songs that its composer learned from his wife Elsa. After shimmering piano runs open a nocturne in this piece, a solo clarinet enters on a long F-sharp, depicting moonlight shining on a title (\*) hill. Half of the cellos tune their C strings down a half step to play marching B-F tritones in this piece’s final section, which follows a phonograph recording of a nightingale. This second piece in a namesake trilogy portrays its title objects in locations such as the Janiculum, the Villa Borghese, and the Appian Way. For 10 points, name this tone poem about title Italian plants by Ottorino Respighi.

ANSWER: *The Pines of Rome* [or *I Pini di Roma*]

<JE, Auditory Arts>

## Bonuses

1. Applying a vertical electric field allows one to adjust this quantity in bilayer graphene. For 10 points each:

[10h] Name this quantity that can be adjusted by changing the halide concentration in the light-active perovskite layer of one device. Materials with different values of this quantity are layered to increase efficiency in “tandem” devices.

ANSWER: **band gap** [or **energy gap**]

[10e] Because of their tunable bandgap, perovskites are promising materials for thin-film examples of these devices, which convert light energy into current. These devices are often mounted on top of roofs.

ANSWER: **solar cells** [or **solar panels**; accept **photovoltaic** cells or **PV** cells]

[10m] The perovskite in the solar cell is usually deposited on top of a layer of nanoparticles of this compound, which are also used in dye-sensitized cells. Rutile is an ore of this non-zinc compound, which is used in sunscreens and white paint.

ANSWER: **titanium dioxide** [or **TiO<sub>2</sub>**]

<VD, Chemistry>

2. This painting’s title is derived from John 8, in which Jesus tells a crowd that “Whoever follows me will not walk in darkness,” while the painting itself illustrates a metaphor from Revelation. For 10 points each:

[10h] Name this painting in which a lavishly dressed Jesus knocks at a door overgrown with roots and thorns. Critics note that the lack of a handle on the door in this painting indicates it could only be opened from the inside.

ANSWER: *The **Light of the World***

[10m] This Pre-Raphaelite artist painted *The Light of the World* as part of a desire to employ art to spiritually move his audience, as also seen in his depiction of a woman rising from the lap of her lover in *The Awakening Conscience*.

ANSWER: William Holman **Hunt**

[10e] Hunt attempted to convert adherents of this religion to Christianity by synthesizing the two in *The Scapegoat*, which draws from a practice detailed in Leviticus.

ANSWER: **Judaism**

<DC/AY, Visual Arts>

3. The protagonist of a novel by this author renames his farm Winterhouses to Summerhouses. For 10 points each:

[10m] Name this author. Bjartur becomes rich when his sheep fetch a high price during the food shortages of World War I in this author’s novel *Independent People*.

ANSWER: Halldór **Laxness** [or **Halldór** Laxness or Halldór Kiljan **Laxness**; accept **Halldór** Guðjónsson]

[10e] Laxness is from this Nordic country, which titles his novel about this country’s “Bell.” The Prose and Poetic Eddas were written in this country by Snorri Sturluson, who was also a lawspeaker in this island country’s Althing.

ANSWER: **Iceland** [or **Ísland**]

[10h] The final section of *Iceland’s Bell* depicts a fire in this city. In a play set in this city, one of the central characters uses “plain language” to discuss his ideas with his wife Margrethe.

ANSWER: **Copenhagen** [or **København**] (The play is *Copenhagen* by Michael Frayn.)

<RR, European Literature>

4. In his paper *Equality of What?*, Amartya Sen argues that top-down development will always be prioritized over these things so long as they are not rigidly defined. For 10 points each:

[10e] Name these principles about what people are free or entitled to on the basis of their humanity. These principles include freedom of speech and freedom of religion.

ANSWER: human **rights**

[10m] Sen worked with this philosopher to reconceive human welfare in terms of capabilities rather than rights. This Chicago philosopher wrote *Sex and Social Justice* and *The Fragility of Goodness*.

ANSWER: Martha **Nussbaum** [or Martha Craven **Nussbaum**]

[10h] This Israeli thinker's "Human Rights Without Foundations" criticizes the position that people have rights by virtue of their humanity, opting instead for a Rawlsian view based on the state. He proposed the source thesis in *The Authority of Law* and wrote *The Morality of Freedom*.

ANSWER: Joseph **Raz**

<MB, Philosophy>

5. A group of medieval physicians known as the "women of" this city includes the author of "On Treatments for Women," a treatise compiled with similar gynecological texts in the *Trotula*. For 10 points each:

[10h] Name this city whose medical school was the first in medieval Europe. Constantine the African translated medical works from Greek and Arabic for this city while stationed at the nearby abbey of Monte Cassino.

ANSWER: **Salerno**

[10m] A Holy Roman Emperor with this name legally separated the professions of physician and pharmacist in the Edict of Salerno. An earlier emperor with this name established legal rights of universities in the *Authentica habita* and drowned in the Saleph River.

ANSWER: **Frederick** [accept **Frederick** II; accept **Frederick** I or **Frederick** Barbarossa; accept **Friedrich** or **Federico** in place of "Frederick"]

[10e] The *Trotula* and other Salerno-produced texts were translated into French for use at this city's university, whose Sorbonne campus was established by Louis IX around 1257.

ANSWER: **Paris**

<DC, European History>

6. Much of this physicist's postwar work focused on experimentally demonstrating Fermi's theory of beta decay. For 10 points each:

[10h] Name this physicist, who observed in a 1956 experiment that polarized cobalt-60 nuclei undergoing beta decay preferentially emitted electrons in the direction opposite the nuclear spin.

ANSWER: Chien-Shiung **Wu** [or **Wú** Jiànxióng]

[10m] Wu's discovery of parity violation, and Cronin and Fitch's later discovery of CP violation, posed issues for electroweak theory. Kobayashi and Maskawa resolved them by introducing a third generation of quarks consisting of *these* two quarks. Name both.

ANSWER: **top** quark AND **bottom** quark [or **truth** quark AND **beauty** quark; prompt on **t** quark AND **b** quark]

[10e] Many modern experiments are trying to discover a double beta decay process that occurs without the emission of this particle. These chargeless, nearly massless leptons oscillate between electron, tau, and muon flavors.

ANSWER: **neutrinos**

<JF, Physics>

7. Ruth Peterson and Lauren Krivo compiled extensive crime data with respect to this variable for their book *Divergent Social Worlds*. For 10 points each:

[10h] Name this variable. Chetty et al. analyzed the tax records of participants in a decades-long study to find that changing this variable early enough in childhood significantly increases economic outcomes later in life.

ANSWER: **neighborhood** of residence [accept **neighborhood** wealth or **neighborhood** poverty; accept **ZIP** code; accept **census tract**; accept **location** or **address** or descriptive answers like **where you live**]

[10e] The Moving to Opportunity experiment randomly assigned low-income families to receive vouchers for this good. Planning commissions may zone locations specifically for the single-family type of this good.

ANSWER: **housing** [accept **apartments** or **houses** or **homes**]

[10m] This major federal housing voucher program is named for a part of the Housing Act of 1937. The Moving to Opportunity paper concluded there was no increase in crime for participants in this program.

ANSWER: **Section 8** housing vouchers

<VD, Social Science: Sociology>

8. A poem set in a part of this country “with bells, and clocks, and trees” ends by exhorting the reader to “come and see the blood in the streets” of this country. For 10 points each:

[10m] Name this country, the subject of the poem “I Explain a Few Things,” which was written while its author was living in this country as a diplomat.

ANSWER: **Spain** [or Kingdom of **Spain** or Reino de **España**]

[10e] This author wrote about the horrors of the Spanish Civil War in his poem “I Explain A Few Things.” This Chilean poet wrote “The Heights of Macchu Picchu” as part of his *Canto General*.

ANSWER: Pablo **Neruda** [accept Ricardo Eliécer Neftalí **Reyes** Basoalto]

[10h] This poet warns that the Spanish Civil War will usher in an “age of concave temples” in his poem “Spain, Take This Cup From Me.” Another poem by this author begins, “There are blows in life, so powerful...I don’t know!”

ANSWER: César **Vallejo** [or César Abraham **Vallejo** Mendoza] (The second poem is “The Black Heralds.”)

<HG, World Literature>

9. Mel Lewis co-founded an ensemble with this musician that still plays today as the house band at the Village Vanguard. For 10 points each:

[10h] Name this musician. Before he and Lewis co-founded their namesake orchestra, this trumpeter premiered songs such as “To You” as part of a different orchestra, with which he also played a solo that quotes “Pop Goes the Weasel.”

ANSWER: Thad **Jones** [or Thaddeus Joseph **Jones**]

[10m] Jones quoted “Pop Goes the Weasel” during a recording of “April in Paris” with *this* pianist’s orchestra. This “Kid from Red Bank” reworked one of his spontaneous “head arrangements” into “One O’Clock Jump.”

ANSWER: Count **Basie** [or William James **Basie**; accept Count **Basie** Orchestra or **Basie** Band]

[10e] Even though Jones played the trumpet, his song “Tiptoe” uses this other instrument to depict him sneaking around the house at night. “To You” also features this instrument, which can play a true glissando using its slide.

ANSWER: **trombone**

<BW, Auditory Arts>

10. In *Women of Babylon*, Zainab Bahrani argues that Mesopotamian votive statues acted as portraits by referencing an alabaster disc depicting this ruler’s daughter overseeing the pouring of a libation. For 10 points each:

[10m] Name this ruler, whose daughter Enheduanna was both a poet and high priestess to the god Nanna. This former cupbearer to Ur-Zababa of Kish was raised by the gardener Akki, who had found him floating in a river.

ANSWER: **Sargon** of Akkad [or **Sargon** the Great]

[10e] In *Women of Babylon*, Bahrani disputes the idea of a relationship between female economic independence and the number of female votive figures dating to this city’s third dynasty. This city was home to the Great Ziggurat.

ANSWER: **Ur** [or **Urim** or **Uru**]

[10h] The votive Plate 21 has an inscription that dedicates the statue on behalf of the donor’s life, her husband’s life, and the life of Gudea, a king of this city-state. The Stele of the Vultures depicts this city-state’s victory over Umma.

ANSWER: **Lagash** [or **Shirpurla**]

<MB/KT, Ancient History / Archaeology>

11. A book by William Least Heat-Moon describes a trip through America using the “blue” variety of these roads, so named because of their color in the Rand McNally atlas. For 10 points each:

[10e] Name these roads. Dwight Eisenhower advocated for and signed a bill creating a national system of these roads in part to benefit national defense.

ANSWER: **highways** [or **Blue Highways** or interstate **highways** or the Interstate **Highway** System; accept **interstates**]



[10m] In the book *Basin and Range*, John McPhee explores the geologic history of this state while traveling along I-80 with geologist Kenneth Deffeyes. US Highway 50 in this state is nicknamed the “loneliest road in America” as it runs through towns like Ely (“ee-lee”) that once served the Pony Express.

ANSWER: **Nevada**

[10h] A control city sign on eastbound I-10 indicates that the highway is headed to Indio and places denoted by this phrase. This phrase was used to title a 2011 Jon Robin Baitz play about a squabbling family in Palm Springs.

ANSWER: “**other Desert Cities**”

<RR, Other Academic>

12. *Description acceptable.* The “Anas” of Thomas Jefferson provides the sole account of a legendary “dinner table bargain” that reduced opposition to this policy. For 10 points each:

[10m] Name or describe this policy that James Madison and Thomas Jefferson assented to in the Compromise of 1790 in exchange for the establishment of a federal capital within the District of Columbia.

ANSWER: the federal **assumption** of state **debt** [accept descriptions like the federal government **paying** states’ **debt**; prompt on, but DO NOT REVEAL, Alexander **Hamilton**’s **financial policy**]

[10e] This Secretary of the Treasury under George Washington pushed for the federal assumption of state debt as part of an economic policy that included the charter of the First Bank of the United States.

ANSWER: Alexander **Hamilton**

[10h] Hamilton and Madison later conducted the Pacificus-Helvidius debates over this policy. A later speech defended this policy by noting, “Our detached and distant situation invites and enables us to pursue a different course.”

ANSWER: Proclamation of **Neutrality** [or **Neutrality** Proclamation]

<GP, American History>

13. Answer the following about the Soil and Water Assessment Tool, a USDA-created software used worldwide to model water use and quality, for 10 points each.

[10m] SWAT is used to model the distribution of pollution from this broad class of sources, which are not discrete or localized to one place. Thus, these sources include most urban and agricultural pollution sources, but not factories.

ANSWER: **non-point** source pollution [or **NPS**; reject partial answers]

[10h] SWAT’s workflow occurs in two steps: a step where all water, sediment, nutrient, and pesticide inputs are calculated for each subbasin, and then this step, which simulates their movement. In hydrology, this term refers to the prediction of the flow rate of a channel.

ANSWER: **routing** [accept flood **routing**]

[10e] SWAT uses the SCS curve to model this process. Most pesticides and fertilizers make it into the water supply through this process, the stage of the water cycle where excess precipitation travels over land.

ANSWER: surface **runoff** [accept overland **flow**]

<VD, Other Science: Earth Science>

14. This story’s protagonist tells her nervous friend Constance Broddle, “you are looking nicer than usual, but that’s easy for you.” For 10 points each:

[10h] Name this short story that begins with Clovis claiming that “all hunting stories are the same,” inspiring the Baroness to describe her encounter with a hyena who eats a child, then gets hit by a car.

ANSWER: “**Esmé**”

[10e] This British humorist wrote “Esmé.” Vera frightens the nervous Framton Nuttel with a tragic anecdote about her uncles failing to return from a hunt in this author’s short story “The Open Window.”

ANSWER: **Saki** [or Hector Hugh **Munro**]

[10m] In another Saki story, two men who feud over hunting grounds in the Carpathians see some of these animals running towards them after they get trapped under a fallen tree.

ANSWER: **wolves** [accept word forms] (The story is “The Interlopers.”)

<CM, British Literature>

15. In a mosaic from the Otranto Cathedral, King Arthur uses a club to battle one of these animals. For 10 points each:

[10h] Name these animals. The *Black Book of Carmarthen* describes Kay's shield as burnished against a monstrous one of these creatures that, in the *Welsh Triads*, terrorizes Anglesey after its rescue by the sons of Palug. In an English folktale, nine of these creatures are observed bearing the coffin of their king.

ANSWER: **cats** [accept black **cats**; accept spotted **cats**]

[10e] A black cat with this name rushes up the chimney to become the King of the Cats after hearing that Tim Toldrum has died. A tailor with this name is struck blind for peeping at a naked Lady Godiva.

ANSWER: **Tom** [accept Old **Tom** or **Tommy** Tildrum; accept Peeping **Tom**]

[10m] These people, who "delight" in red skies at night, believe that black cats bring good luck. These people believed in a paradisiacal afterlife known as Fiddler's Green.

ANSWER: **sailors** [or equivalents like **seafarers** or **mariners**] (The saying goes "Red sky at night, sailor's delight. Red sky in morning, sailor's warning.")

<KT, Beliefs>

16. The Shaheed Minar commemorates the deaths of students protesting a 1952 speech in which Khwaja Nazimuddin rejected state recognition of this language. For 10 points each:

[10e] Name this namesake language of a movement that used the writings of Rabindranath Tagore to oppose the official imposition of Urdu in East Pakistan.

ANSWER: **Bengali** [or **Bangla**; accept **Bengali** Language Movement or **Bhāṣā Āndōlana**]

[10h] The Bengali Language Movement influenced the Six Points expounded by this first president of Bangladesh.

ANSWER: Sheikh **Mujibur** Rahman [accept **Bangabandhu**; prompt on **Rahman**]

[10m] The longest-serving governor of East Pakistan had this surname and banned Tagore's Bengali songs from public radio to enforce the primacy of Urdu. Zulfikar Ali Bhutto succeeded Yahya, a Pakistani president with this surname, after the Bangladesh Liberation War.

ANSWER: **Khan** [accept Abdul Monem **Khan** or Yahya **Khan**]

<AS/GP, World History>

17. After the death of Mademoiselle La Rue, this cautionary tale concludes that "vice...leads only to misery and shame." For 10 points each:

[10h] Name this novella by Susanna Rowson. After being seduced and abandoned by John Montraville, the title character of this novella dies giving birth to her daughter Lucy.

ANSWER: **Charlotte Temple** [or **Charlotte, A Tale of Truth**]

[10m] This other young woman from the streets turns to prostitution after Pete the bartender leaves her for "a woman of brilliance and audacity." This character's mother insists, "I'll fergive her," after learning of her death.

ANSWER: **Maggie** Johnson [accept **Maggie**, *A Girl of the Streets*; prompt on **Johnson** or **Margaret**]

[10e] After being abandoned by Larry Donovan while pregnant, this friend of Jim Burden successfully builds a happy life with her husband Anton Cuzak in a Willa Cather novel titled for her.

ANSWER: **Antonia** [accept **Antonia** Shimerda or **Antonia** Cuzak; accept *My Antonia*; prompt on **Shimerda**]

<PS, American Literature>

18. Horseradish peroxidase and cholera toxin subunit B tracers travel in this direction in neurons. For 10 points each:

[10m] *Specific term required.* Give this term that describes motion *from* the axon *towards* the soma, as exhibited by FluoroGold, or *from* the plus end of a microtubule *towards* its minus end, as exhibited by dyneins.

ANSWER: **retrograde** [accept **retrograde** motion or **retrograde** transport]

[10h] This virus's P protein interacts with dyneins to facilitate its retrograde transport to the soma. This virus's g-deleted form can be used to trace neuronal circuits, while double deletion variants also missing its L gene exhibit reduced neurotoxicity.

ANSWER: **rabies** virus [or **Rabies** *lyssavirus*]

[10e] While dyes can also be used as tracers, most can't be used for circuit mapping due to their inability to jump across these spaces between neurons, unlike viral tracers like rabies. Neurotransmitters are released into these clefts.

ANSWER: **synapses** [accept **synaptic** clefts; or **synaptic** tracing; or **synaptic** circuits]

<AY, Biology>

19. In Wong Kar-Wai's *In the Mood for Love*, Mrs. Chan wears twenty of these garments featuring designs like red and blue florals and black-and-white stripes. For 10 points each:

[10m] Name this Chinese dress of Manchu origins. Fusion of traditional elements with Western fashions in cities like Shanghai and Hong Kong led to the tight-fitting style of this dress used to market sophisticated women in ads.

ANSWER: **qípáo** [or **cheongsam**]

[10h] Inspired by the qípáo, this fashion designer created a hot pink gown with neon orange piping for the singer H.E.R. ("her"). This former *Vogue* editor also designed wedding gowns for celebrity clients like Victoria Beckham.

ANSWER: Vera **Wang** [or Vera Ellen **Wang** or **Wáng** Wēiwēi]

[10e] Traditional qípáos are usually made from this fabric. Zhāng Zéduān painted *Along the River During the Qingming Festival* on a handscroll of this fabric, which is produced by namesake worms that eat mulberry leaves.

ANSWER: **silk** [accept **silk**worms]

<CM, Other Arts: Fashion/Decorative/Misc.>

20. Western social science research is intertwined with European imperialism according to a Linda Tuhiwai-Smith book that seeks to perform this process on methodologies. For 10 points each:

[10m] Name this historical process which "is not a metaphor" according to Tuck and Yang. An essay about embracing this process on a personal scale describes the author's choice to write in Kikuyu instead of English.

ANSWER: **decolonization** [accept "**Decolonization** is Not a Metaphor"; accept **Decolonizing Methodologies**; accept "**Decolonizing** the Mind"]

[10e] The second half of *Decolonizing Methodologies* describes a research paradigm practiced by scholars of this ethnicity, to which Tuhiwai-Smith belongs. These people are indigenous to New Zealand.

ANSWER: **Māori** [accept Kaupapa **Māori**]

[10h] Tuhiwai-Smith writes that the Kaupapa Maori researcher actively chooses to work in these figurative places. Kimberlé Crenshaw elaborated her framework of intersectionality in a paper titled for "mapping" these places.

ANSWER: **margins** [accept "Mapping the **Margins**"]

<VD, Social Science: Misc.>