

by Bill Tressler

with thanks to Bern McCauley and the Great Valley Quiz Team

Tossups

1. In William Orpen's painting titled for this object, the model Emily Scobel sits on a chair. Also known as *I think I am ready now*, a William Merritt Chase painting titled for one shows a female in a pink dress. One surrounded by Passion scenes is between the marrying individuals of Jan van Eyck's *Arnolfini Portrait*, and the one in *A Bar at the Folies-Bergère* enables (*) viewing of patrons and a dress's backside. M. C. Escher's 1935 print of his hand holding a ball is also called *Self Portrait in a Spherical one*. For 10 points—give these objects in which people see themselves.

answer: mirror [Escher's work is *Self-Portrait in Spherical Mirror*]

2. The Mössbauer effect is a recoil-free nuclear emission and absorption example of this phenomenon using gamma rays. To restore lost energy, oscillating Foucault [foo-KOH] pendulums may exploit a magnetic form of it. Paul Lauterbur invented a medical imaging device that uses it, the (*) MRI. Related to a Latin word for "echo", crystal has a frequency described by this term, and on *Mythbusters* Jaime Vendera exploited that to shatter a wine glass with his voice. For 10 points—give this term, one of whose opposites is dissonance.

answer: resonance (accept word forms including resonant frequency)

3. Michael Honey collected this person's communications into *All Labor Has Dignity*. In 1999 Loyd Jowers, the owner of Jim's Grill, lost a wrongful death suit pertaining to the day this person died. Stanford University discovered his theological dissertation contained plagiarized sections. In July 1962 he called for a (*) day of penance asking Albany Movement members to use nonviolent protest, and earlier his house was bombed during the Montgomery Bus Boycott. For 10 points—give this March on Washington leader honored on a January holiday.

answer: MLK or Martin Luther King Jr.

4. Louis Moreau Gottschalk composed *Bamboula* and *The Banana Tree* for this instrument and taught Teresa Carreño to play it. It was the Tchaikovsky contest category won by Dmitry Masleev, Barry Douglas, and Van Cliburn, and is used in the Arthur Rubinstein competition. Bartolomeo (*) Cristofori invented this device manufactured by Steinway & Sons. Most modern examples play notes between an A to a C seven octaves higher and have three pedals. For 10 points—name this instrument with 88 black and white keys.

answer: piano or pianoforte

5. Governor Mark Sanford's staff said he was enjoying this landmark when he was actually visiting a mistress. Conceived by Benton MacKaye, Randall Lee Smith committed two and attempted two more murders here. A Harlem Line railway stop connects it to Grand Central Station, and the High Huts of the White Mountains are available for those (*) trekking on it. Its endpoints are Springer Mountain in Georgia and Mount Katahdin in Maine. For 10 points—give this path that allows hikers to enjoy an eastern U.S. mountain range.

answer: Appalachian (National Scenic) Trail (prompt on "Appalachian Mountains" and similar)

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6. **One person who held this position in this country names a Renzo Piano-designed building with colored water pipes and air ducts. Another may have approved the 1985 bombing of Greenpeace's *Rainbow Warrior*. A third asked "How can you govern a country which has two hundred and forty-six varieties of (*) cheese?" Congress's cafeteria started serving "freedom fries" after the Iraq War was criticized by its then incumbent Jacques Chirac. For 10 points—give this position held by Charles de Gaulle and François Mitterrand.**

answer: **president of France (or French Republic) or Président de la République française**
[the performing arts center is named for Georges Pompidou]

7. **In one of this writer's works, Jack Bevens lives in a building where Cecilia and Hetty use a potato and onion to make beef stew. He also described a tramp sent to Blackwell's Island for loitering. In his best known stories Bill and Sam must pay to get rid of a troublesome 10-year old, and (*) Jim and Della sell prized possessions to buy presents. "The Ransom of Red Chief" and "The Gift of the Magi" are by—for 10 points—what author who once joked the letter in his pen name stood for Olivier?**

answer: **O. Henry or William Sydney Porter**
[the first two plots are "The Third Ingredient" and "The Cop and the Anthem"]

8. **The title of a 2016 Haunted Garage album, *Lost Girl* linked this fictional figure to the Pied Piper. *Soul Eater* manga about him inspired a Port Richey, Florida arson. Morgan Geyser and Anissa Weier wanted to live in this individual's Nicolet National Forest mansion in Wisconsin and (*) stabbed a friend. In a 2018 film Wren and her friends summon this figure but go insane when they look at him. Eric Knudsen photoshopped this figure into images where he stalks children on a creepypasta forum. For 10 points—give this folklorish thin male figure.**

answer: **Slender Man**

9. **Organisms lacking the brevis radix protein have difficulty forming these cells described by an Ernst Münch hypothesis. Heinz Dietmar Behnke labeled s- and p-types of its sieve plastids, as they dealt with starch and proteins. Mountain pine beetles and aphids gain nutrition from this tissue. This term is from the Greek for (*) "bark", as it is found between trees' cambium and outer bark. Multidirectional movement in these living cells includes the flow of sap. For 10 points—give this tissue transporting food throughout plants, a counterpart of xylem.**

answer: **phloem**

10. **Operation Guard Shack was an FBI anti-corruption effort that in 2010 arrested some of this polity's police and prison employees. Due to 1999 local navy bombing practice, its municipality of Vieques **[vee-A-kess]** saw protests. Led by Governor Ricardo Rosselló, The PROMESA law established a board to oversee its billions of debt. Many (*) emigrated from it, and thousands were without power for months after Hurricane Maria devastated this island. For 10 points—give this U.S. commonwealth with capital San Juan, whose name is Spanish for "rich port".**

answer: **Puerto Rico**

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11. **This rock is rounded in Bunter Pebble Beds, and the Gazzi-Dickinson method can quantify it on a QFL diagram. Arkose is a variety with at least one-quarter feldspar and Itacolumite is a yellow example. The University of Sydney's Quadrangle is composed of this substance also sculptured at Petra in Jordan. Storing (*) water between its grains, much of Wyoming and Wisconsin's aquifers have this sedimentary rock found in river beds with eroded stone particles. For 10 points—give this stone composed of a substance found at beaches and deserts.**

answer: **sandstone** (prompt on "sand")

[similar to the U.S. Ivy League, Australia's oldest colleges are called the Sandstone Universities]

12. **Susan Clarencius was a lady in waiting for this English monarch whose reign saw the founding of the Irish city now called Portlaoise. Henry Dudley's and Thomas Stafford's plots, as well as Wyatt's Rebellion, were against this ruler, and Privy Councillors supported Lady Jane Grey's claim over hers. This daughter of (*) Catherine of Aragon and Henry VIII ["the eighth"] followed the Catholic faith and burned bishop Hugh Latimer at the stake. For 10 points—give this ruler whose Protestant persecutions led to the nickname "bloody".**

answer: **Mary** Tudor or **Bloody Mary** or **Mary I** of England

[note this is *not* Mary Queen of Scots; Portlaoise was originally Maryborough]

13. **This one word ends the film adaptation title of John MacDonald's *The Executioners*. Isadora Wing's affairs at a psychoanalyst's conference appear in an Erica Jong title including it, and Raoul Duke destroys hotel rooms and hallucinates in a Hunter S. Thompson title starting with this word. Over a million copies of a September 2018 nonfiction work with this title were sold; in it (*) Gary Cohn and Rob Porter withhold documents from Donald Trump, as told to Bob Woodward. For 10 points—give this term for a feeling experienced by those with phobias.**

answer: **fear**

[the works are *Cape Fear*, *Fear of Flying*, *Fear and Loathing in Las Vegas*, and *Fear*]

14. **Massimo Livi Bacci wrote a "concise history" of this quantity that drives technological advancements in Ester Boserup's theory when it increases. The main focus of a 1968 Paul Ehrlich work titled for a "bomb", in the 14th century it decreased around twenty percent. In a 1798 essay, Thomas Robert (*) Malthus argued food supplies grow arithmetically while this grows exponentially. Some models says it will level off this century, but currently it increases 2.37 every second. For 10 points—give this quantity around 7.7 billion.**

answer: global (or world) **population** or **human population** (accept A **concise history of world population** or The **Population Bomb**; do not accept more specific answers like "U.S. population")

15. **In 1884 William Bubeck used this heraldic creature on fountains in Switzerland's third-most populous city after Zurich and Geneva. Pliny the Elder said they came from Cyrene and some thought men on horseback could die from poison spread up a stabbing weapon. Hildegard of Bingen claimed one of these "little kings" emerged from a toad egg. (*) Weasels' smell was fatal to them, an account possibly inspired by mongooses and snakes, and others said these died after looking in mirrors. For 10 points—name these serpents whose gaze is lethal.**

answer: **basilisk** (accept **cockatrice**) [that Swiss city is Basel]

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16. **Civil engineer Reginald Thomson designed much of this city including its Denny Regrade. Norm Stamper's police chief resignation followed the street protests during the 1999 World Trade Organization meeting here. Though 2700 miles away, Erastus Brainerd publicized this city as a gateway to the Klondike gold rush. Microsoft leader Paul Allen founded the (*) Museum of Pop Culture here and it includes the Pike Place Market and Space Needle. The Mariners and Seahawks play home games in—for 10 points—what Washington city?**

answer: **Seattle**, Washington

17. **Isotope 62 of this element has the highest binding energy of known nuclides. Axel Fredrik Cronstedt isolated this element whose pure form results from Ludwig Mond's technique. Ten to twenty percent of people get contact dermatitis when touching this element removed from hypoallergenic jewelry. Kamacite minerals contain (*) iron and this metal left by meteorites. Atomic number 28, this mildly-magnetic silver-white metal is bonded to chromium in nichrome [NIH-chrome]. For 10 points—name this element still used in five-cent coins.**

answer: **nickel**

18. **This term is derived from a verb meaning “to attend” and an early use was in a 10th-century poem encouraging one to hold an umbrella. Jan Joosten and William Adams achieved this status after a trading mission stranded them in a foreign country. The head of a leader of these was hidden after a September 1877 defeat wiped out the (*) Satsuma Rebellion. The rōnin were ones without a master and these followers of the Bushidō code might restore disgraced honor through seppuku disembowelment. For 10 points—give the term for these Japanese warriors.**

answer: **samurai** (accept bushi before “Bushidō”)

19. **Ernst Abbe articulated a condition named for this function that when satisfied allows lenses to produce sharp images. The 7th century Indian Bhaskara I [“the first”] included the number 40,500 in an approximation of this function which is multiplied by the imaginary “i” in De Moivre's formula. The length of a polygon's side over this function of the corresponding (*) angle is a constant in the law of this function whose reciprocal is the cosecant. Opposite over hypotenuse is the definition of—for 10 points—what trigonometric function which is first in the mnemonic “SOH-CAH-TOA”?**

answer: **sine** (accept Abbe sine condition)

20. **One character asks the consequence for dropping this person and the answer is “he'd punish us”. Characters think he is shouting at his horse, but that is derided as wind in the reeds. He is thought to have a white beard, and allows a shepherd and goatherd to sleep in his hayloft. This character apparently does nothing, but will surely be coming (*) tomorrow. After the baggage-carrying Lucky enters, Pozzo is mistaken for this elusive character. Samuel Beckett created—for 10 points—what character that Vladimir and Estragon are waiting for?**

answer: **Godot** (accept Waiting for Godot)

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21. This act codified in the Fourth Lateran Council Canon 21 has roots at Skellig Michael, where participants had an *anam cara* who encouraged contrary action. Patrick Leinen's iPhone app facilitating this action has earned official blessing. This act is the subject of John Cornwell's *The Dark Box*, and Pius IX ["the ninth"] decreed an age of (*) seven appropriate for it. Individuals with mortal transgressions who have not yet done this are not supposed to take Communion. For 10 points—give this process in which Catholics admit sins.

answer: Confession or Sacrament of Penance and Reconciliation (prompt on "penance")

22. At this play's beginning, a sword, horse, and bedstead are shown as Christmas gifts. When its characters Kristine Linde and Doctor Rank meet, they discuss hard work. Towards the end of this play the protagonist exclaims she has been performing tricks. Its plot features an Italy trip financed by a loan with a forged signature. Nils (*) Krogstad uses that, attempting to prevent Torvald's firing of Nils by blackmailing Nora Helmer. Henrik Ibsen wrote—for 10 points—what play titled for a place where Raggedy Ann or Barbie might like to live?

answer: A Doll's House (or A Doll House) or Et dukkehjem

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Bonuses

1. These landforms are classified as narrower than mesas or plateaus. For 10 points each—

A. Give this term for an isolated mountain with steep sides, derived from French for "low hill". Arizona's Monument Valley has two shaped like mittens.

answer: **butte** (accept West and East **Mitten Buttes**)

B. The Lakota call this Wyoming landmark Bear Lodge Butte **[BYOOT]**. The first National Monument, this 867-foot summit was home to a "bad god" in myth and given a demonic name.

answer: **Devils Tower**

C. Bear Butte and Porcupine Butte are in this state that includes Wind Cave and the Badlands national parks. Its capital is Pierre.

answer: **South Dakota**

2. Another plot with its characters was published in 2015's *Go Set a Watchman*. For 10 points each—

A. Name this Harper Lee work whose characters include Atticus Finch and Scout.

answer: **To Kill a Mockingbird**

B. *To Kill a Mockingbird* is set in Maycomb in this state, which is also the setting of Christopher Paul Curtis's *The Watsons Go to Birmingham*.

answer: **Alabama**

C. Film title acceptable. In this other Alabama-set work, Igdie Threadgoode has a close relationship with Ruth Jamison. It's titled for cooked unripe vegetables sold at an eating establishment until the railroad closes.

answer: **Fried Green Tomatoes** at the Whistle Stop Cafe

3. Ancient soldiers used these to make helmets comfortable, and the *officinalis* species of this organism is used in baths. For 10 points each--

A. Give these organisms comprising the phylum Porifera, some of which have soft fibrous skeletons.

answer: **sponges** (accept **Porifera** if you are interrupted)

B. The choanocyte cells of sponges generate water flow by moving these appendages. These structures permit mobility in the case of spirochetes and most animal sperm.

answer: **flagellum** or **flagella**(e)

C. *Grantia compressa* is one sponge species with a skeleton composed of this material. This calcium compound with a molar mass of 100 is found in aragonite and coral reefs.

answer: calcium **carbonate** or **CaCO₃**

4. His words and actions are collected in the Ḥadīth. For 10 points each—

A. Name this man who united the Arabian peninsula in the 7th century under the religion of Islam.

answer: **Muhammad** (or **Mohammed**)

B. Ḥadīth interpretations say this "guided one" will arrive to defeat the false Messiah. Syed Muhammad Jaunpuri claimed to be this figure in the 15th century.

answer: **Mahdi**

C. In 1881 Muhammad Ahmad established a Mahdist state in this country and ruled four years. Before a 2011 map redrawing, this country with capital Khartoum was the largest African country by area.

answer: Republic of the **Sudan** or Jumhūriyyat as-**Sūdān**

[South Sudan became independent that year]

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5. For 10 points each—give these answers related to Japanese literature:

A. Phrases of five, seven, and five syllables form these Japanese poems appearing in Matsuo Bashō's *The Seashell Game*.

answer: **haiku** (accept **hakko**)

B. This 11th century work about a son of Emperor Kiritsubo was written by the Lady Murasaki and is sometimes called the world's first novel.

answer: The **Tale of Genji** or **Genji Monogatari**

C. Hon'inbō Shūsai and the young Otaké participate in this game in a Yasunari Kawabata title. One world class participant in this competition is China's Ke Jie.

answer: **Go** (accept The **Master of Go**)

6. In a Celtic religious ceremony, this plant was cut off an oak tree. For 10 points each—

A. Name this plant whose species include *Viscum album*. Couples traditionally kiss under one used in Christmas decorations.

answer: **mistletoe**

B. Mistletoe is often identified as the golden bough this mythological hero obtained allowing him to converse with Anchises [an-KYE-seez] in the underworld. He is the hero of an epic poem.

answer: **Aeneas** (do not accept "Aeneid")

C. In Norse myth, this son of Frigg is killed when Loki makes a spear of mistletoe, the only object capable of hurting him. Because Thökk would not weep for his death, Thökk must stay in the underworld until Ragnarök.

answer: **Balder** (or **Baldr** or **Baldur**)

7. This state's Robert Byrd holds the senate tenure record, having served from 1959 until 2010. For 10 points each—

A. Name this mountainous state with capital Charleston. Its 2018 senatorial candidates include Patrick Morrisey and Joe Manchin.

answer: **West Virginia**

B. In February 2018, West Virginia employees in this profession conducted a 9-day strike. Governor Jim Justice asserted their walkout was hurting children.

answer: **teachers** or **school employees** (accept similar answers)

C. One union involved in the strike was this one whose founders include Mother Jones and Eugene Debs. Wobblies are members of this union abbreviated IWW.

answer: **Industrial Workers of the World**

8. This is sometimes called Genovese syndrome due to a questionable report dozens of people ignored the 1964 murder of Kitty Genovese. For 10 points each—

A. Name this sociological effect in which people are less likely to offer a victim help, thinking others will offer the aid.

answer: **bystander** effect, or **bystander** apathy

B. To reduce the bystander effect and reduce fear of being sued for unintentional injury, some states pass these laws protecting those giving aid. They are named for a "good" individual who helped a robbed traveler in the book of Luke.

answer: Good **Samaritan** laws

C. Biologists are not sure why humpbacks intervene to stop killer whale attacks, a form of this behavior. Auguste Comte coined this term for an organism helping others, and the term is used to describe charitable giving.

answer: **altruism** (accept word forms)

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9. The U.S. Embassy in this country was seized in November 1979, and L. Bruce Laingen was among hostages held 444 days. For 10 points each—

A. Name this country whose revolution forced the Shah Pahlavi to flee Tehran.

answer: **Iran** (accept Islamic Republic of **Iran** or Jomhuri-ye Eslāmi-ye **Irān**)

B. The Iranian hostage crisis factored into this man's failure to earn a second term in the 1980 election. Before his presidency, he was Georgia's governor.

answer: James Earl "Jimmy" **Carter**

C. After the revolution, this Grand Ayatollah led Iran until his 1989 death. He was succeeded by the current Supreme Leader Ali Khamenei.

answer: Ruhollah **Khomeini**

10. Meteorologists are expecting a weak one of these will develop in the early months of 2019. For 10 points each—

A. Give this term for weather patterns linked to warmer equatorial Pacific waters. The term is Spanish for "little boy" or the Christ child.

answer: El **Niño**

B. The El Niño–Southern Oscillation occurs when one of these less-dense, wetter air masses forms over Indonesia. They appear on weather maps as capital L's.

answer: **low** pressure system (prompt on partial answers)

C. During El Niño times these weather-influencing wind patterns move south. In 1952 Pan Am began exploiting this current to shorten Tokyo-to-Honolulu flight times.

answer: **jet streams**

11. He captained the HMS *Endeavour* on his 1768 voyage. For 10 points each—

A. Give this explorer who claimed South Georgia Island for his king and died after attempting to ransom a Hawaiian chief over a stolen watercraft.

answer: James **Cook**

B. One of Cook's first expedition goals was to observe Venus's transit and calculate the astronomical unit, the distance between Earth and what body at the center of our planetary system?

answer: the **Sun**

C. The Cook Strait lies between these two Pacific landmasses Cook explored in 1770. These two islands belonging to the same country are the 12th and 14th largest by area.

answer: **North** and **South** Islands (of New Zealand) or **Te Ika-a-Māui** and **Te Waipounamu**

12. This substance can be strengthened in a heating process involving sulfur. For 10 points—

A. Give this substance harvested from the latex of a tree, used to create medical gloves, pencil erasers, and tires.

answer: (natural) **rubber**

B. One discoverer of that vulcanization strengthening process was this American. His Akron, Ohio automotive supplies company is known for flying blimps over sporting events.

answer: Charles **Goodyear**

C. Gay-Lussac's law states temperature is inversely proportional to this other quantity, which partially explains why car sensors often trigger when the weather becomes cooler.

answer: **pressure**

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13. For 10 points each—give these answers related to backwards spelling:

A. There already existed a city named Walker in this state, so the backwards “Reklaw” was used for a town instead. Other locales here include San Antonio and El Paso.

answer: **Texas**

B. “Emanon”, or “no name” backwards, was a title used by this jazz trumpeter on his *Groovin' High* album. “Night in Tunisia” is another title by this bebopper who gained a nickname for his flighty onstage antics.

answer: (John Birks) “Dizzy” **Gillespie**

C. Higgs and Chowbok are characters in this Samuel Butler title about a place meant to be utopian, but clearly lacking in some respects.

answer: **Erewhon** or, Over the Range [which is close to “nowhere” backwards]

14. This music was inspired by an interest in astrology. For 10 points each—

A. Name this orchestral suite whose movements include “Mercury, the Winged Messenger” and “Uranus, the Magician”.

answer: The **Planets**

B. *The Planets* is by what composer whose operas include *The Perfect Fool* and *At the Boar's Head*?

answer: Gustav **Holst**

C. Holst served as music director for a girl's school named for this saint and titled a suite in opus 29 for him. This person also names a London cathedral redesigned by Christopher Wren.

answer: Saint **Paul** (‘s Girls' School; accept Saint **Paul**'s Suite)

15. For 10 points each—name these teenage authors:

A. Her father Otto published the diary of this young girl whose family evaded Nazis by hiding in Amsterdam in the 1940s. She died at the Bergen-Belsen concentration camp.

answer: Anne(lies) **Frank**

B. He became a *New York Times* bestselling author at age nineteen for his *Inheritance Cycle*, which includes the volumes *Eragon* and *Eldest*.

answer: Christopher **Paolini**

C. *Taming the Star Runner* and *That Was Then, This Is Now* were later works by this author who completed her tale of Oklahoma gangs, *The Outsiders*, at age sixteen.

answer: S(us)an E(loise) **Hinton**

16. A number and its additive inverse sum to this value. For 10 points each—

A. Give this integer that when used as a divisor yields an undefined or indeterminate result.

answer: **zero**

B. Use of zero as a placeholder was introduced to Europe by this Italian. He authored the 1202 *Liber Abaci* [LEE-ber ah-BAH-chee] and studied a sequence whose values are each the sum of the previous two.

answer: **Fibonacci** or Leonardo **Bonacci** or **Leonardo of Pisa**

C. Statistical error terms and mathematical quantities very close to zero are often denoted by what fifth letter of the Greek alphabet?

answer: **epsilon**

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17. For 10 points each—give these answers related to Salvador Dali works:

A. A disconnected earpiece of one of these objects appears in *Mountain Lake*, while a small Dali sculpture pairs a lobster with this invention of Alexander Graham Bell.

answer: telephone (accept Lobster Telephone)

B. In addition to this surrealist work showing insects, Dali also did a “disintegration” version of it in which clocks melt in front of a seaside.

answer: The Persistence of Memory or La persistència de la memòria (accept The Disintegration of the Persistence of Memory)

C. Dali’s *The Hallucinogenic Toreador* includes this object twenty-eight times. This object missing its arms was probably created by Alexandros of Antioch on an Aegean island.

answer: Venus de Milo or Aphrodite of Milos

18. This leader learned European shipbuilding techniques during his 1697 Grand Embassy tour. For 10 points each—

A. Name this “Great” Russian leader who built a capital on the Baltic Sea.

answer: Peter the Great or Peter I [“the first”] or Peter Alekseyevich Romanov [that capital is Saint Petersburg]

B. Through the Great Northern War, Peter the Great regained this neighbor territory for Russia. Cities in the modern country with this name include Tartu and Tallinn.

answer: Republic of Estonia or Eesti Vabariik

C. When Peter was ten years old, one of these councils chose him as the next tsar over Peter’s half-brother. This term is still used for the lower house of the Russian Assembly.

answer: duma (accept Boyar Duma or State Duma) [after a power struggle, the pair jointly ruled until the brother’s death]

19. For 10 points each—name these Greek personifications:

A. The *Winged Victory of Samothrace* depicts this personification of victory. An athletics company with a swoosh logo is named for her.

answer: Nike

B. Somnus was the Roman equivalent of this sleep personification, who was the twin brother of Thanatos.

answer: Hypnos

C. In an Aristophanes play, this son of Iasion is invited into Chremylos’s home, where his sight is restored. The name of this wealth personification is related to a term for a government ruled by the rich.

answer: Plutus or Ploutos [a plutocracy is government by the wealthy]

20. Olga, Marina, and Irina appear in this Russian’s *Three Sisters*. For 10 points each—

A. Name this author of the plays *The Wood Demon* and *Uncle Vanya*.

answer: Anton Chekhov

B. Madame Ranevskaya tries to save her property in another Chekov play titled for this kind of orchard. These fruits have Lambert and Bing cultivars.

answer: cherry (accept The Cherry Orchard)

C. Masha and Trigorin are characters in this Chekov play in which Konstantin gives Nina the title bird.

answer: The Seagull or Chayka

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21. He pursued Sitting Bull's encampment, attempting to force them onto reservations. For 10 points each—

A. Name this army officer who lost the Battle of Little Bighorn, which is known as his "Last Stand".

answer: George Armstrong **Custer**

B. Custer's Last Stand occurred in this present-day state, where the so-called Four Georgians found gold at the Last Chance Gulch in 1864.

answer: **Montana**

C. Another battle casualty was this Native American who served as Custer's scout. This sanguinely-named man was shot near Major Marcus Reno.

answer: **Bloody Knife** (or **Tamena Way Way**)

22. For 10 points each—name these intelligent birds:

A. These corvids with black iridescent feathers are idiomatically eaten after a person is proven wrong. They are only temporarily deterred by dummies among crops and sometimes perch on the object meant to scare them.

answer: **crows** (accept **eat crow** or **scarecrow**)

B. Darwin studied these Galápagos birds in genres including Geospiza and Camarhynchus. They use sticks as tools to impale grubs.

answer: **finches**

C. The spotted catbird is a species of these Australian and New Guinea birds whose males build elaborate structures with grass and bright objects to attract mates.

answer: **bowerbirds**