



1. This author wrote three books attempting to show that Latin, Greek, and Hebrew had Celtic origins, after the failure of his plays *The Ladies Subscription* and *Tombo-Chiqui* led him to denounce David Garrick for torpedoing his stage career. This author parodied Mary Wortley Montagu as Bell Travers in his novel *Memoirs of a Coxcomb*, which came out after his book about a woman who is employed by Mrs. Brown and Mrs. Cole to work with men such as Barville and Charles. That book by him was written while he was imprisoned at Fleet over a debt and was condemned to be "buried and forgot" after he was put on trial in 1749. For 10 points, name this author of a "memoirs of a woman of pleasure" entitled *Fanny Hill*.

ANSWER: John **Cleland**

019-14-67-01101

2. Helen was performing this action when Polyxo's servants dressed as the Erinyes and killed her. King Cocalus ordered the death of Minos while Minos was performing this action. Hermes acquired a sandal because its owner was busy performing this action. The Danaids are punished in Tartarus by perpetually having to prepare for this action. Siproites was turned into a woman after viewing this action, which in some versions Tiresias was blinded for observing. Upon encountering Artemis performing this action, a man was turned into a stag and killed by his dogs. For 10 points, name this action whose viewing caused the death of Actaeon, which was often performed by Aphrodite in the river Achelous because water is central to it.

ANSWER: **bathing**

019-14-67-01102

3. In a painting made shortly after this man's greatest victory he is shown standing underneath a scroll bearing his motto of *Tandem fit surculus arbor*. A letter that used the term "stippleckens", meaning "little dots" influenced this man. This man is believed to have played a large role in the execution of Johan van Oldenbarnevelt. This man borrowed the tactic of the countermarch, in which ranks of riflemen fire and then retreat, from the ideas of William Lodewijk. The winner of the Battle of Nieuwport, this man's ideas were used to by Gustavus Adolphus to win the Battle of Breitenfeld. For ten points, name this statholder and son of William the Silent who used Roman military tactics to revolutionize battle strategy in the late 16th century.

ANSWER: **Maurice** of Nassau [or **Maurice** Prince of Orange]

250-14-67-01103

4. A character in this play is told not to be a "quality time girl" while attending Lisa Friedlander's wedding. The protagonist of this play says "I thought the point was we were all in this together" while speaking to the Miss Crain's School East Coast Alumnae Association. This play sets a key scene at the meeting of the Huron Street Ann Arbor Consciousness Raising Rap Group, where the former lover of the editor of the *Liberated Earth News* wishes that her daughter will have a better life. At the opening of this play, the main character shows a slide of the Lily Martin Spencer painting *We Both Must Fade* and discusses its meaning. The title character of this play begins a relationship at a rally for Eugene McCarthy, where she meets Scoop Rosenbaum, but remains platonically closer to the gay doctor Peter Patrone. For 10 points, name this play about two decades in the life of a disillusioned feminist art historian, written by Wendy Wasserstein.

ANSWER: *The Heidi Chronicles*

019-14-67-01104

5. George Perle explored the use of tetrachordal set classes to modulate in these works by this composer in a paper about their symmetric formations. A movement in the first of these works begins with an accelerando as the viola and cello play in minor sixths, and then the violins play in major thirds. Two violins play G-string glissandi a quarter-tone apart in the burletta section of one of these works. The third is divided into "Prima Parte," "Seconda Parte," recapitulation of "Prima Parte," and a coda. The "alla bulgarese" scherzo of the fifth of is in  $(4+2+3)/8$  time. Each movement of the last of these works begins with a mesto theme, and some of these works are in the composer's characteristic arch form. The Allegretto pizzicato movement of the fourth of them uses the composer's namesake snap pizzicato. For 10 points, identify these six pieces for two violins, viola, and cello by a Hungarian composer.

ANSWER: Béla **Bartók's string quartets**

237-14-67-01105

6. A college basketball team in this metro area has retired the numbers of Michael Anderson and Malik Rose. Tom Gola was the star player on a team from this metro area that won the NCAA title with coach Ken Loeffler. During a game between two schools from this metro area, Dmitri Domani sealed an upset over a Kerry Kittles-led squad in the 1994 edition of the "Holy War." During another rivalry game between two teams from this metro area, Nehemiah Ingram was told to injure John Bryant by a coach who admitted to "sending in a goon." A team from this metro area won the 1985 NCAA title in a close game over Georgetown with coach Rollie Massimino, and another team from this area was long coached by John Chaney. For 10 points, name this city whose college basketball "Big 5" consists of La Salle, St. Joseph's, Villanova, Temple, and Penn.

ANSWER: **Philadelphia**

019-14-67-01106

7. This company referred to some of its middle and upper management as "First Class Workers". This company sold a product called the "Big Mike", and this company was saved from unprofitability during the Great Depression by its long-time CEO Samuel Zemurray. This company was known for hiring many members of the Garifuna ethnic group. The Admiral Dewey and Admiral Farragut were two of the many ships that made up this company's Great White Fleet. This company fed propaganda to US journalists after the issuing of Decree 900, which would have taken much of this company's land in Guatemala. For ten points, name this company that was referred to as "the octopus" and arranged for the CIA's murder of Jacopo Arbenz, an American company known for its banana production in Central and South America.

ANSWER: **United Fruit Company** [or **UFCO** or **Chiquita** or **United Brands**]

250-14-67-01107

8. *South Carolina v. Baker* overturned the last remaining precedent from this case. The outcome of this case would have changed in its second hearing when an ailing Howell Jackson returned to Washington, but George Shiras likely changed his vote. This case largely reversed the ruling in *Springer v. U.S* which concerned a similar piece of legislation passed during the Civil War. Justice Fuller's majority opinion in this case argued that the legislation in question was unconstitutional because it was both direct and non-proportional. The Massachusetts plaintiff in this case owned 10 shares in the other party. The decision in this case was rendered moot by the ratification of the Sixteenth Amendment. For 10 points, name this 1895 Supreme Court case that invalidated the Income Tax Act of 1894.

ANSWER: **Pollock v. Farmer's Loan and Trust, Co.** [accept either answer in either order]

094-14-67-01108

9. In a 1999 paper, Noam Nisan and Amir Ronen computerized this economic approach in its "algorithmic" variety. This approach was used in the paper "Efficient Mechanisms for Bilateral Trading," which proposes that there is no efficient way for two parties with unknown, varying values on a good to come to a trading price. That result in this field is known as the Myerson-Satterthwaite theorem. This approach is an extension of game theory to situations where fewer variables are known, and is particularly useful for auction-like situations with full information held only by a non-buyer, non-seller third party. For 10 points, name this microeconomic approach which won the 2007 Nobel Prize for Roger Myerson, Eric Maskin, and Leonid Hurwicz.

ANSWER: **mechanism design** theory

019-14-67-01109

10. It is not hydrogen, but after reacting a thiol with a ketone, this element can be used to reduce the thioacetal to an alkane in the Mozingo reaction. Sodium sulfate and coal can be used to refine this element in the Oxford process. This element is found alongside iron and sulfur in the ore pentlandite. This element is synthesized by reacting its oxide with Syngas to form its tetracarbonyl, which then decomposes into this element's pure form at high temperature. This element can be found in a catalyst that can fully reduce benzene to cyclohexane. That catalyst is an alloy of this element and aluminum and is named for Raney. For 10 points, name this transition metal synthesized in the Mond process, most commonly produced in Sudbury, Ontario.

ANSWER: **nickel** [or **Ni**]

245-14-67-01110

11. In one painting in this building, the nude son of Theophilus kneels on a pile of bones. Cellini relates how Pietro Torrigiano punched Michelangelo in the nose for making fun of other artists who were making sketches of the murals in this building. Tabitha, dressed all in white, rises from her bed in one scene in this building. An elderly man in rags is cured by the shadow of a passing figure in one scene in this building. A trip to Hungary permanently interrupted Masolino's work on its frescoes. An angel in red holding a sword casts out a weeping Adam and Eve in one scene in this building. Another of its frescos shows the central figure catching a fish on the left and handing the title coin to a Roman on the right. For 10 points, name this Florentine chapel home to Masaccio's *Tribute Money*.

ANSWER: **Brancacci** Chapel [or Cappella dei **Brancacci**; prompt on "Church of Santa Maria del Carmine"]

094-14-67-01111

12. The class of stars named for this colour are highly-short lived with dramatic changes in mass and are also named for S Doradus. Those stars are sometimes intermediates in the evolution between massive and Wolf-Rayet stars and are luminous variable stars of this colour. The alpha star in the constellation Virgo is this colour. One type of star of this colour appears on the upper left of an H-R diagram and can have spectral type O or B. That type of star is at least 18 times the mass of the Sun and can gradually lose their envelope through millions of years of expansion to become a red giant. For 10 points, name this colour of star which includes a class of "stragglers", the hottest and rarest in the universe.

ANSWER: **blue**

245-14-67-01112

13. One character in this work notes that different kinds of bees are all still bees in response to another character's list of ideal qualities of men and women. One character in this work discusses some contradictory verses of Theognis, and he is compared to a stingray which paralyzes its victims. That man also appeals to Empedocles' theory of effluvia to justify his contention that shape always accompanies color. He ponders why sons may not be as accomplished as their fathers, and tries to trick Anytus into agreeing that those who want to learn virtue should hire a Sophist. In order to prove that all learning is recollection, one character in this dialogue helps a slave boy realize that using the diagonal of a square as the side of a new square leads to a doubling in size. For 10 points, name this dialogue of Plato in which Socrates and the title aristocrat fail to define virtue.

ANSWER: Meno

237-14-67-01113

14. In one short story by this author, Wally Mars covertly switches a cup full of Roland's semen with his own so as to father the child of his ex-girlfriend Tomasina. Larry is discovered receiving a blowjob from Iannis by one of the three narrators of a novel by this author. In that same novel, Diane MacGregor wins a Nobel Prize while working at Pilgrim Lake, a facility where Leonard does research before having a nervous breakdown. The Hercules Hot Dogs chain is founded after the Detroit Race Riots by Miltiades in one novel by this author of "Baster". Brown co-ed Madeleine is a protagonist of a novel by this author who won a Pulitzer for a work where the central character experiences a bulb between the legs when thinking of the Obscure Object and changes names from Callie to Cal. For 10 points, name this author of *The Marriage Plot* and *Middlesex*.

ANSWER: Jeffrey Eugenides

094-14-67-01114

15. A hooded woman looks to the right in this artist's *Woman of Alvarado, Veracruz*, one of his acclaimed Mexico works that got him a job as the head of the Education Department's Photo and Film division. A picture of a bearded man holding a placard reading "The Price" by this artist appeared in the 49th and 50th issues of *Camera Work*. The title object forms a diagonal line below two Port Kent, New York houses in this man's extremely-flat *White Fence*. This student of Lewis Hine collaborated on a film with Charles Sheeler which borrowed from his most famous photo of silhouetted men walking in front of a building. This cinematographer of *Manhatta* showed a newspaper seller wearing a sign reading "Blind" around her neck in one photo. For 10 points, name this photographer of *Wall Street*.

ANSWER: Paul Strand

094-14-67-01115

16. This amino acid is replaced with aspartic acid in the Hiroshima variant of hemoglobin, causing a decrease in the efficacy of the Bohr effect. Three residues of this amino acid coordinate the central zinc cation in the active site of carbonic anhydrase. This amino acid is phosphorylated by ATP in bacterial two-component regulatory systems. Mutations in bacteria that cannot synthesize this amino acid are central to the Ames test. It is not tryptophan, but this amino acid's side chain is aromatic and has a pKa of 6. Besides aspartate and their namesake, serine proteases contain this amino acid in their catalytic triad. For 10 points, name this barely-basic amino acid with an imidazole side chain.

ANSWER: histidine [or His]

245-14-67-01116

17. Excess saturation in these instruments can lead to a side-effect called blooming that reduces their effectiveness. This instrument uses the bucket-brigade process to achieve frame transfer. Placing this instrument in a dewar insulated with liquid nitrogen helps to maintain its optimum dynamic range by decreasing unwanted dark current. This instrument commonly contains a buried-channel MOS capacitor which significantly reduces the degree of charge trapping. In these devices, the excitation of an electron or hole by a photon leads to a charge carrier moving across potential wells, converting the optical input into a digital readout. These devices have better quantum efficiency than a CMOS sensor. For 10 points, name this type of semiconductor that won the 2009 Nobel Prize in Physics for George Smith and Willard Boyle, an imaging device used in the Hubble Space Telescope.

ANSWER: charge-coupled-device [prompt on "semiconductor" until mentioned]

245-14-67-01117

18. One ruler of this kingdom butchered some monks after they prayed for his enemy at the Battle of Chester and had a rival poisoned after he fled to the court of Ceretic of Elmet. The decorative whale-bone Franks Casket was created during this kingdom's "Golden Age." A ruler of this kingdom killed the usurper Cadwallon after erecting a wooden cross on the "Heavenfield," and its first Christian king was converted by Paulinus. A ruler of this kingdom who won the Battle of Winwaed also summoned Wilfred of Ripon and Colman to debate the computation of Easter's date. This kingdom was ruled by men like St. Edwin, Oswald, and Oswiu, and was composed of Deira and Bernicia. For 10 points, name this home of Bede, the northernmost of England's Anglo-Saxon kingdoms.

ANSWER: Northumbria [anti-prompt on Deira; anti-prompt on Bernicia]

252-14-67-01118

19. Near the end of this story, the protagonist recalls an "incredible story" of a priest who carved a cross into his own hand in order to disperse a mob. Its protagonist declares, "Dear parents, I have always loved you, all the same" before its final line, "At this moment an unending stream of traffic was just going over the bridge." Earlier, the hero of this story wrote three separate letters where he described "the engagement of an unimportant man to an equally unimportant girl", but hesitated to write a letter announcing his own engagement to Frieda Brandenfeld. The protagonist, who is unable to keep his father's underwear clean, is berated for not actually having a friend in Russia. For 10 points, name this Franz Kafka short story which ends with the suicide of Georg Bendemann after his father's verdict.

ANSWER: "The Judgment" [or "Das Urteil"]

094-14-67-01119

20. The Mystic Clan gang operated along this route under the leadership of John Murrell, and Samuel Mason also accosted travelers here. At a waypoint along this route known as Grinder's Stand, Meriwether Lewis's suicide took place. This route was originally based on the migratory patterns of bison moving between salt licks and grazelands, and Jeff Busby patronized its expansion into a parkway as part of the Civilian Conservation Corps. A few miles off this road, the Emerald Mound is found, and it also includes Pigeon Roost and the Ackia Battleground. For 10 points, name this historical pathway that runs northeast from its namesake city in Mississippi into central Tennessee.

ANSWER: the Natchez Trace

019-14-67-01120

21. This group was responsible for temporarily replacing Dadhichi's head with a horse's head as punishment for gaining knowledge of the immortality-granting substance Madhu vidya. These gods had honey instead of blood and can fill a hundred jars of honey at will. These gods are the progenitors of Nakula and Sahadeva, the horse experts in the Mahabharata who comprise Madri's contribution to the Pandavas. As representatives of dawn and dusk, these gods are considered the brothers of the dawn-goddess Ushda. For 10 points, name these Vedic patrons of surgery and healing, who are twins.

ANSWER: the **Ashvins** [or the **Ashvin** twins]

019-14-67-01121



1. This author wrote of man's reluctance to lose his ego and achieve apocatastasis or unification with God in his philosophical treatise, *The Tragic Sense of Life in Men and in Peoples*. For 10 points each:

[10] Identify this Spanish author of Basque ancestry who wrote *Love and Pedagogy* and *Abel Sanchez*.

ANSWER: Miguel de Unamuno y Jugo

[10] At the end of this story by Unamuno, Dr. Atienza describes how the title character likes to put on a wig and pretend he is Privy Counsellor Herr Schmarotzender. Its title character alienates his patients by writing fiction.

ANSWER: "The Madness of Dr. Montarco"

[10] While in an insane asylum, Dr. Montarco obsesses over a section from Chapter 32 of the second part of this novel where the title character responds to one of his critics. Pierre Menard translates this text by re-creating it line-for-line in a Borges story.

ANSWER: Don Quixote [or *The Ingenious Gentleman Don Quixote of La Mancha*]

094-14-67-01201

2. Identify the following about some Major League Baseball owners, for 10 points each.

[10] David Glass, the owner of Royals, had earlier served as CEO of this company, in which capacity he stated "You and I might, perhaps, define children differently" when confronted by a Dateline reporter about evidence of child labor. A woman whose fortune comes from this company founded the Crystal Bridges Museum of Art.

ANSWER: Walmart [or Wal-Mart Stores, Inc.]

[10] Jim Crane, owner of this team, was fined \$2 million for the racist policies of his Eagle Global Logistics Company, including Crane allegedly saying, "Once you hire blacks, you can never fire them". These basement dwellers are coming off three hundred-loss seasons and moved from the NL to the AL West in 2013.

ANSWER: Houston Astros [accept either underlined answer]

[10] John Malone, the owner of this team, once appeared on the cover of *Wired* in the guise of Mad Max, and now is the largest private owner of land in the entire country. A previous owner of this team served as its manager for one day after dismissing Dave Bristol.

ANSWER: Atlanta Braves [accept either underlined answer]

094-14-67-01202

3. In March 2010, this group collected ten milliliters of blood from volunteers and symbolically poured it out at the Government House. For 10 points each:

[10] Name this coalition headed by Nattawut Saikua and Jatuporn Prompan, which opposes the People's Alliance for Democracy.

ANSWER: Red Shirts [or United Front for Democracy Against Dictatorship]

[10] The Red Shirts support deposed prime ministers Thaksin and Yingluck Shinawatra in this country.

ANSWER: Thailand

[10] This military junta led by Prayuth Chan-ocha seized power in Thailand in May 2014.

ANSWER: National Council for Peace and Order

019-14-67-01203

4. These particles are split into two classes, one comprised of quark-antiquark pairs known as mesons and the other consisting of three quarks, the baryons. For 10 points each:

[10] Name this class of particles, examples of which include the proton and neutron.

ANSWER: **hadron**

[10] In this process, high energy leptons are fired at hadrons in order to study quarks. This process exhibits a behaviour known as Bjorken scaling in which the structure functions are simplified to a  $\nu$  over  $q^2$  squared term.

ANSWER: **deep inelastic** scattering

[10] This model describes the hadrons in deep inelastic scattering as being comprised of small, point-like entities. It takes its name from an old term for quarks and gluons.

ANSWER: **parton** model

245-14-67-01204

5. Stretch receptors are an example of the "mechanically-gated" type of these proteins. For 10 points each:

[10] Name these proteins which allow for the movement of charged particles into and out of the cell.

ANSWER: **ion channels**

[10] Ion channels can be studied using this technique, in which voltage is applied across a cell membrane. It uses a micropipette to puncture the membrane at which point suction is applied to create a seal.

ANSWER: **patch clamp**

[10] Patch clamping can be used to study the voltage-dependent activation of this receptor. This receptor plays a major role in memory and synaptic plasticity. Magnesium ions block this receptor in the absence of glutamate.

ANSWER: **NMDA** receptor [or **N-methyl-D-aspartic acid** receptor]

245-14-67-01205

6. This event was the goal of the Sealed Knot, a secret society that plotted the Penruddock uprising. For 10 points each:

[10] Identify this event which occurred thanks to negotiations of George Monck and the creation of the Convention Parliament.

ANSWER: the **Restoration** of Charles II [or anything indicating the **return** of **Charles II** or the **return** of the English **monarchy**]

[10] This general, the author of *The Instrument of Government*, tried to resist the Restoration but was captured by regicide Richard Ingoldsby, who won a pardon for his actions.

ANSWER: John **Lambert**

[10] During the Restoration, George Monck ended this parliament by allowing the return of Presbyterians. Its name reflects that it was composed of remnants left after Pride's Purge.

ANSWER: **Rump** Parliament

252-14-67-01206

7. Hans-Georg Gadamer used this term to describe the iterative process through which an initial pre-judgment can color our reading of a text, which leads us to reformulate the pre-judgment. For 10 points each:

[10] Name this term developed by Martin Heidegger to refer to the relationship between understanding and interpretation. More commonly, it refers to the interplay of meaning between the parts and the whole of a text.

ANSWER: **hermeneutic circle**

[10] A hermeneutic circle appears in this Heidegger essay, which analyses Vincent van Gogh's "A Pair of Shoes" and argues that we can't know the essence of the titular kind of object without studying its examples, and vice versa.

ANSWER: "The **Origin of the Work of Art**" [or "Der **Ursprung des Kunstwerkes**"]

[10] Heidegger writes that the hermeneutic circle is "the essential fore-structure" of this key concept in *Being and Time*, which translates to "being there" or "existence" in a manner specific to humans.

ANSWER: **Dasein**

237-14-67-01207

8. A character in this novel dies when a Hammond B-3 organ falls on him while setting up a speaking gig for a pre-famous Barack Obama. For 10 points each:

[10] Identify this 2012 novel mostly set at Brokeland Records, an establishment owned by Archy Stallings and Nat Jaffe. It was written by the author of *The Mysteries of Pittsburgh*.

ANSWER: **Telegraph Avenue**

[10] *Telegraph Avenue* was written by this author who wrote about "Jews with Swords" in *Gentlemen of the Road* and *The Yiddish Policemen's Union*.

ANSWER: Michael **Chabon**

[10] The record store at the center of *Telegraph Avenue* is threatened by G Bad, who used to be in this profession. Roberta Muldoon was employed in this profession before undergoing a sex change in *The World According to Garp*.

ANSWER: professional **football player** [or **NLF player**; accept more specific answers like Pittsburgh Steelers **quarterback** or Philadelphia Eagles **tight end**; prompt on "athlete"]

094-14-67-01208

9. These people performed the sparagmos and omphagia ritual, in which they tore apart a live bull and then ate it. For 10 points each:

[10] Name these people, including Agave, who celebrated Bacchanalias.

ANSWER: **Maenads**

[10] The Maenads were the followers of this Greek god of wine.

ANSWER: **Dionysus**

[10] This king of Edoni was cursed with madness by Dionysus and thought his son was an ivy plant, then pruned him to death.

ANSWER: **Lycurgus**

019-14-67-01209

10. This region was ruled by Alain the Great during the latter part of the 9th century and a war fought here claimed the life of Charles of Blois. For 10 points each:

[10] Name this region in which a war of succession that ended in the Battle of Auray was fought.

ANSWER: **Brittany** accept **Bretagne**; accept **Breizh**

[10] During the 15th century Brittany was ruled by two dukes of this name. The second duke of this name teamed up with Charles the Bold to fight the War of the League of the Public Weal and tried to invade England.

ANSWER: **Francis** [accept **Francois**; accept **Francez**]

[10] The War of the League of the Public Weal targeted this king of France who had fought his father, Charles VII, in the Praguerie. This guy has a nickname inspired by his political intrigues.

ANSWER: **Louis XI** [accept **Louis the Prudent**; accept **Louis the Spider**; accept **Louis the Universal Spider**; accept **Louis the Cunning**]

250-14-67-01210

11. This man's studio included Giovanni da Udine, who rediscovered the Roman recipe for stucco. For 10 points each:

[10] Identify this Renaissance master of the *Wedding of the Virgin* and the *Madonna of the Meadow*.

ANSWER: **Raphael** [or **Raffaello** Sanzio da Urbino]

[10] This most accomplished of Raphael's students collaborated with the master on works like *The Vision of Ezekiel* and *The Fire in the Borgo*.

ANSWER: Giulio **Romano**

[10] Romano and other students of Raphael like Gianfrancesco Penni helped finish the paintings in this room in the Palace of the Vatican. Three angels hold a cross that breaks through the clouds in one painting in this hall, while another painting shows the title figure being baptized.

ANSWER: Hall of **Constantine** [or Sala di **Costantino**]

094-14-67-01211

12. The developer of this method analyzed J. S. Bach's *Little Prelude in D minor* to show how the score could be derived from a fundamental structure, or *Ursatz*, though a process of prolongation. For 10 points each:

[10] Name this type of musical analysis which attempts to show how elongation within the tonal space of the tonic triad gives rise to the musical work.

ANSWER: **Schenkerian** analysis

[10] In an early monograph, Heinrich Schenker defended the orchestration of this piece against Richard Wagner's re-orchestration. The choral fourth movement of this work sets a Friedrich Schiller poem.

ANSWER: Ludwig van **Beethoven**'s Symphony No. **9** [prompt on "Choral Symphony"]

[10] Schenker studied harmony with this Austrian, whose fourth symphony incorporates his namesake triplet plus duplet rhythm. Deryck Cooke has brought attention to the problem of choosing editions of his symphonies.

ANSWER: Anton **Bruckner**

237-14-67-01212

13. This property is shared by some asteroids like Damocles. It occurs when an object rotates in a direction opposite to that of the primary. For 10 points each:

[10] Name this feature of some planets and moons whose apparent variety makes it appear as if objects in the night sky are backtracking.

ANSWER: **retrograde motion**

[10] This value determines whether or not a planet's rotation is retrograde. It is measured by taking a line perpendicular to the orbital plane with the object's rotation axis.

ANSWER: **axial tilt** [prompt on "tilt"]

[10] Relative to the Sun, there are two planets in the Solar System that have retrograde orbits. That is, when viewed from the Sun's north pole, they rotate about their axes clockwise while revolving around the Sun in a counterclockwise manner. Name both.

ANSWER: **Venus** and **Uranus**

245-14-67-01213

14. This author created Mr. James Formal, who is so obsessed with copying Spanish customs that he imprisons his daughter in his house, and Lady Flippant, who succeeds in her scheme to marry Simon Addlepot. For 10 points each:

[10] Name this playwright of *The Gentleman Dancing-Master* and *Love in a Wood*.

ANSWER: William **Wycherley**

[10] This Wycherly play features a parade of dummies such as Fidget and Sparkish, who are taken in by Mr. Horner's plan to spread rumors of his own impotence so that men will let him spend time with their spouses.

ANSWER: *The Country Wife*

[10] Wycherly's unfinished works were revised for publication by this man, whose own comedies include a mock epic on Lord Petre's clipping hair from Bedelia.

ANSWER: Alexander **Pope**

019-14-67-01214

15. This character dances the Beggar's Dance at a wedding, and warriors called him Yenadizze due to his idleness. For 10 points each:

[10] Name this mischievous character who starts killing a bunch of seagulls after besting Iagoo and his friends at gambling. He then gets turned into a giant beaver and a giant goose before being crushed by falling rocks.

ANSWER: **Pau-Puk-Keewis**

[10] Pau-Puk-Keewis is killed in this poem, whose title son of Nokomis marries Minnehaha.

ANSWER: *The Song of Hiawatha*

[10] Each line in *The Song of Hiawatha* comprises four of these metric feet, each of which is a stressed and an unstressed syllable. Longfellow's use of these feet was inspired by the *Kalevala*.

ANSWER: **trochee** [or **choree**; or **choreus**; accept **trochaic** tetrameter]

237-14-67-01215

16. This man won an Eisenstaedt Award for his portrait of a child standing before a green-colored wood background during Holi titled *Red Boy*. For 10 points each:

[10] Identify this photographer who took the iconic *Afghan Girl* photo.

ANSWER: Steve **McCurry**

[10] Several of McCurry's best known photos were taken during this conflict, examples of which include a duck dipping its beak into a pool of oil and a silhouette of camels against the burning oil fields of Kuwait in the distance.

ANSWER: First Persian **Gulf War** [or Operation **Desert Storm**]

[10] McCurry used this film for many of his photos, including *Afghan Girl*. In 2012, McCurry took a photo of Robert De Niro seated in front of a projector with the last roll of this film ever produced.

ANSWER: **Kodachrome**

094-14-67-01216

17. This process uses an iridium catalyst to decrease side products secondary to the water gas shift reaction. For 10 points each:

[10] Name this reaction in which a carbonyl group is added to methanol. It generates hydroiodic acid in the step prior to regeneration of the catalyst.

ANSWER: **Cativa** process

[10] Along with the Monsanto process, the Cativa process produces this compound. This compound has a "trifluoro" derivative that is used as an ion-pairing agent in HPLC.

ANSWER: **acetic acid**

[10] The Monsanto process uses a catalyst made up of this transition metal. This metal is found attached to three arylphosphine ligands in Wilkinson's catalyst, and it is combined with platinum to catalyze the production of nitric acid in the Ostwald process.

ANSWER: **rhodium**

245-14-67-01217

18. This thing was worn on belts and the belt named for Hiawatha is the official flag of the Iroquois Confederacy. For 10 points:

[10] Name this product made from quahog and conch shells that was used as money by many Northeastern Native American tribes.

ANSWER: **wampum** shells

[10] Wampum and beaver pelts were the currency of this colony. This colony was the site of Keift's War and was led by Pieter Stuyvesant for a long time.

ANSWER: **New Netherland** [or **Nieuw-Nederlandt**; do not accept "New Netherlands"]

[10] During Keift's War, the Dutch colonists faced off against this tribe. This tribe also fought the Esopus War against the colonists and Pieter Minuit bought Manhattan from this tribe.

ANSWER: **Lenape** [accept **Delaware**]

250-14-67-01218

19. This god was the recipient of a white robe made by Nanna. For 10 points each:

[10] Name this wife of Odin and mother of Balder.

ANSWER: **Frigga**

[10] Frigg is permitted to sit in this seat of Odin, which grants the power to see the entire universe.

ANSWER: **Hlidskjalf**

[10] Frigg's use of Hlidskjalf causes a dispute with Odin over whether this giant is a poor host. This giant also captures Loki in hawk form and is ultimately killed by Thor after trying to encounter him without his belt and hammer.

ANSWER: **Geirrod**

019-14-67-01219

20. This emperor took over Yanqui and forces loyal to him win the Battle of Hulao. For 10 points each:  
[10] Name this emperor who began the conquest of the Goguryeo Kingdom and was preceded by Emperor Gaozu.

ANSWER: Emperor **Taizong** [or **Li Shimin**]

[10] Taizong worked with this Korean Kingdom to defeat the Goguryeo. This kingdom used the bone rank system and took over Korea after the defeat of the Goguryeo.

ANSWER: **Silla** Kingdom or Dynasty

[10] Jindeok, the ruler of the Silla when Taizong began his campaign, is notable for being one of these people. Another of these people ruled the Tang Dynasty shortly after the reign of Taizong and was named Wu Zetian.

ANSWER: **woman** [or equivalents like **female**]

250-14-67-01220

21. In an essay on "Second Thoughts" on this thinker, George Orwell argued that Hilaire Belloc anticipated this man's main argument that capitalism is going away but socialism isn't taking its place. For 10 points each:

[10] Identify this author of "Lenin's Heir" and *The Managerial Revolution*.

ANSWER: James **Burnham**

[10] Burnham's follow-up to *The Managerial Revolution* focuses on contemporary Machiavellians like this Italian economist and his theory of the "circulation of the elites". This Italian's namesake 80/20 principle is often trotted out business books on Six Sigma.

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

[10] This Six Sigma fanatic was proclaimed "Manager of the Century" by *Fortune* in 1999. His book *Straight from the Gut* advocated the "rank and yank" system of promoting "A players" and firing "C players" he instituted at GE.

ANSWER: Jack **Welch** [or John Francis **Welch**, Jr.]

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