Tossups

1. **In one letter, this man snarkily asked Faustus if a sucking-fish or a giant Indian conch or a stingray was obstructing an unacceptably late grain shipment. Translator Thomas Hodgkin lambasted the "verbose and flaccid" style of this man, whose writings tell us that Dionysius Exiguus, the man who invented the BC/AD calendar system, was a Scythian. This correspondent of Pope Agapetus I founded a building whose name roughly means "fishpond" at Squillace after retiring from civil service. German scholar Theodor Mommsen translated decades of official letters written by this man, the** (*) *Variae*. Jordanes' *Getica* abridges a lost history by this man, whose two-book *Institutiones* instructed monks on what was worth copying at his school-like institution, the Vivarium. For 10 points, name this scholar who outlived Boethius by about four decades, a scribe of Theodoric the Great who is sometimes considered the last great mind of antiquity.
ANSWER: **Cassiodorus** [or Flavius Magnus Aurelius **Cassiodorus** Senator; accept **Theodoric** the Great before "verbose," as the letter was written in Theodoric's name]

2. **In one poem, this author tells his father: "you must have made / Cherries that you loved, / Black with so much redness!" He wrote a poem that begins: "On some other planet you may be right, / but not here." One poem by him asks: "What then is my life span? Like shooting a self-portrait." This author of *The Hour of Grace* and "A Meeting with My Father" described adults taking care of children by shading them "Like a tree over the sleeper on the public bench." One poem by him begins: "My life is the gardener of my body." Joe's dissertation on D.G. Castleman is ruined when Castleman starts publishing bad poetry, in his radio play** (*) *Killing Him.* He wrote "I wasn't one of the six million who died in the Shoah" in one poem; and he read his poem "God has pity on kindergarten children" at the Nobel Peace Prize ceremony for Yitzhak Rabin. For 10 points, name this author of *Open Closed Open*, Israel's most acclaimed 20th-century poet.
ANSWER: Yehuda **Amichai** [or Ludwig **Pfeuffer**]

3. **In Vaisheshika Hindu philosophy, this is the number of *dravya*, or fundamental substances, making up the universe. On Phuket, a festival lasting this many days includes an extreme cheek-piercing ritual using huge objects such as carving knives; that Vegetarian Festival honors this number of Daoist Emperor Gods. This number of shamanic *Songs* make up the second section of the *Chu Ci* anthology. In Chinese divination, every natural number up to and including this one is represented on the Lo Shu diagram. Sunan Kalidjaga led a group of this many apostles which brought Islam to** (*) Indonesia. The Dragon is especially connected to this number in Chinese numerology, as it has this many kids. This is the number of days for which aspects of the feminine Devi or Shakti are worshipped in the Navaratri festival. For 10 points, give the number of sides of a Baha'i House of Worship and of points on the Baha'i star symbol.
ANSWER: **9** [or **nine**]

4. **The Fukui function equals the local density of states at the Fermi level times the global form of this quantity. The overall value for this quantity is the geometric mean of each component according to Datta's equation. Parr and Chattaraj proved a namesake principle that a system evolves at constant chemical potential to maximize this quantity. This quantity is the partial derivative of chemical potential with respect to number of electrons, sometimes multiplied by ½. The higher its value for this property, the more likely a** (*) nucleophile attacks an enone 1,2 rather than 1,4. This quantity is approximately the ionization energy minus the electron affinity, or the energy difference between the HOMO and LUMO. This quantity is high for fluoride and low for iodide anions. For 10 points, name this quantity which is correlated to high charge density in Ralph Pearson's acid-base theory.
ANSWER: chemical **hardness** [or word forms; do NOT accept or prompt on "softness"]

5. **A scholar in this field developed a method of modifying images via "smooth pycnophylactic interpolation." Fred K. Schaefer's article about "Exceptionalism in" this discipline savagely critiqued a "regional" form of it which was popularized in America by Richard Hartshorne. Yi-Fu Tuan pioneered a "humanistic" form of this discipline. A scholar in this non-anthropology field has written that "accumulation by dispossession"**

underlies *The New Imperialism.* **This discipline stopped being a viable** (*) major at most American colleges after Harvard shuttered its department in 1948. The claim that "Everything relates to everything else" is part of Waldo Tobler's first law of this discipline. The book *The Limits to Capital* exemplifies David Harvey's Marxist approach to, for 10 points, what field for which the software ArcGIS was developed, which studies the effect of place and terrain on humans?
ANSWER: **geography** [or human **geography**; or regional **geography**; or humanistic **geography**; or Marxist **geography**; accept **cartography** or **cartographic** analysis until "Exceptionalism"]

6. **Brauer's theorem on induced characters implies that a set of functions named for this mathematician are meromorphic in the entire complex plane. This mathematician is the alphabetically first namesake of a theorem which when combined with Maschke's theorem yields that the group ring CG is isomorphic to a finite direct product of matrices over the complex numbers. A set of functions named for this mathematician is a Dirichlet series associated with linear representations of Galois groups. This mathematician gave the first explicit group presentation of** (*) braid groups. This man is the alphabetically first namesake of a theorem which states that a semisimple structure named for him is isomorphic to a direct product of full matrix rings over division rings. That theorem is co-named for Wedderburn. Those structures named for him satisfy the descending chain condition on ideals, unlike Noetherian rings which satisfy the ascending chain condition. For 10 points, name this Austrian algebraist.
ANSWER: Emil **Artin** [the functions are the Artin L-functions, and the doubly-eponymous theorem is Artin-Wedderburn]

7. **The Kennedy administration was shamed into investing more heavily in this territory by Clarence W. Hall's article in *Reader's Digest* which alleged that this place had "[sunk] to the level of a slum". Albert Steinberger helped write the constitution of this future territory, but then seized power as a virtual dictator. John Martin Poyer's rigorous quarantine policy in this territory resulted in no deaths from the Spanish Flu in 1918. The boundaries of this territory were split between the US and Germany by an 1899 Tripartite Agreement. Its legislature is known as the** (*) Fono. This territory has the highest rate of military service of any in the United States. In the 1960s, American football was introduced into this territory, providing a talent pool for BYU. For 10 points, name this territory which became a US possession following the establishment of a naval base at Pago Pago, a collection of islands in the South Pacific.
ANSWER: **American Samoa** [do NOT accept or prompt on "Samoa"]

8. **A sign for Hygrade, which makes "all beef Frankfurters," can be seen atop a burning building in this artist's work *Simply Add Boiling Water*. In another of his works, banners reading "Every Minute Counts" and "Time Is Short" hang from tenements. The isolating flash of this man's Speed Graphic camera was used to create what he called "Rembrandt lighting." One of his photographs contrasts the** (*) bediamonded Mrs. George Washington Kavanaugh and Lady Peel with the title figure. The cover of a photobook by this artist's Hollywood works is a distorted photograph of Marilyn Monroe. Two women dressed splendidly in white furs and on their way to the Met are gazed at harshly by a woman in dilapidated dress in his photo, *The Critic*. Many of his photos were collected in 1945's *Naked City*. For 10 points, name this news photographer known for capturing murder victims.
ANSWER: **Weegee** [or Arthur **Fellig** or Usher **Fellig**]

9. **In one speech, this character claims: "The most precious asset in life, I think, is the ability to be a good son" before listing his surrogate fathers. After Martin makes a weak joke about Teddy Roosevelt, this character tells him to "shut the fuck up" and then makes him rub his back to demonstrate to another character what loyalty means. By pretending to mistake his worst enemy for his mother and crying piteously, he tricks her into singing "Balalaike" for him. He defines** (*) homosexuals as men "who know nobody and who nobody knows. Who have zero clout" to explain why he is not gay. He bullies his doctor Henry into diagnosing him with "liver cancer," and brags that his proudest achievement was securing the execution of Ethel Rosenberg, whose ghost haunts him. After Joe Pitt refuses to take a job on his behalf in Washington D.C., this character is disbarred while dying of AIDS. For 10 points, name this character from *Angels in America*, a fictionalization of Joe McCarthy's lawyer.
ANSWER: **Roy Cohn** [accept either name]

10. **This author interviewed a librarian named Susanna Pechuro arrested for distributing leaflets as well as Vladimir Glebov, the son of Lev Kamenev, for a book written during a glasnost-era trip to Russia. His best known book draws heavily from a four-volume history by Jules Marchal. A recent book by this author of** *The Unquiet Ghost* **casts Texaco executive Torkild Rieber as one of its chief antagonists and profiles Robert Merriman, the leader of the Abraham Lincoln Brigade. This co-founder of (*)** *Mother Jones* magazine wrote a book that opens with Edmund Dene Morel observing inbound ships to Antwerp filled with rubber. In that same book, this author celebrates the efforts of Roger Casement to put British pressure on a colony co-founded by Henry Morton Stanley. For 10 points, name this author who chronicled the horrors of the Belgian Congo in *King Leopold's Ghost*.
ANSWER: Adam **Hochschild**

11. **This composer's most famous sacred work names a suspension-filled variant of the Prinner in Robert Gjerdingen's** *Music in the Galant Style*. **One of this composer's works was the inspiration for J.S. Bach's parody cantata** *Tilge, Höchster, meine Sünden*. **His most performed work opens with a duet in which an alto melody is followed two beats later by an overlapping soprano imitation one tone higher, over a walking bass in F minor. Gregor Piatigorsky helped another composer transcribe music credited to this man into the** *Suite* **(*)** *Italienne* for cello and piano. This man's music was supported by Rousseau against that of Rameau in the War of the Buffoons, which was started by his *buffa* intermezzo about the domineering housemaid Serpina. Music credited to him was rearranged by Stravinsky in the ballet *Pulcinella*. For 10 points, name this Italian composer of a 1736 *Stabat Mater* and *La serva padrona*.
ANSWER: Giovanni (Battista) **Pergolesi**

12. **The most popular class of sensors for this technique were developed by Wolter, Bayer, and Greschner at IBM and are made from silicon pointing in the [001] [zero-zero-one] direction. Oscillating at sufficiently large amplitudes can overcome the "jump-to-contact" instability caused by attractive forces in this technique. This technique improves on its predecessor by not requiring a conductive sample or vacuum conditions. Frequency modulation is used to interpret results from this technique by relating the change in the sensor's (*)** eigenfrequency to the change in its effective spring constant. The surface profile is commonly measured by the beam-bounce method, in which a deflection of the probe shifts the position of a laser beam reflecting off the probe. For 10 points, name this form of scanning probe microscopy in which a surface is imaged by monitoring the deflection of a cantilever.
ANSWER: **atomic force microscopy** [or **AFM**, or **scanning force microscopy**, or **SFM**, prompt on scanning probe microscopy before mention]

13. **Historian Stephen Boardman has attempted to debunk many of the worst stories about this family, whose founder legendarily died after standing on a boar's poisoned bristles. A drink called Prophecy is named for an old woman's prediction that this family's control over one territory would end with its one-eyed last member departing on a white horse. A member of this family became Lord of Lorne in 1469. This family controlled the collegiate church at Kilmun, but most of that building was destroyed by the rival (*)** Lamonts during the Covenanting Wars. Archibald from this family launched a failed invasion alongside the Duke of Monmouth's rebellion. Most of the chiefs of this clan are buried in the Argyll Mausoleum. Troops under the command of a member of this family broke the rules of hospitality and slaughtered their hosts in the 1692 Glencoe massacre. For 10 points, name this Scottish clan, rivals of the MacDonalds.
ANSWER: the **Campbell**s [or Clan **Campbell**]

14. **One chapter of this critic's most famous work contrasts one author's aim to create "the comic epic in prose" with his two predecessors' antipathy towards Classical epics. He argued that the diversity of experience created by economic specialization and the Protestant emphasis on the dignity of labor were what allowed individuals' daily lives to become worthy subject matters for literature. This critic described the reconception of literature as a "full and authentic report of human experience," which he called (*)** "formal realism," in a book that investigates the social circumstances that allowed Defoe, Richardson, and Fielding to forge a new literary genre. This critic shares his last name with a character who replaces the disgruntled Arsene as the manservant to Mr. Knott. For 10 points, name this English critic who wrote *The Rise of the Novel*, and who shares his last name with the title character of a Samuel Beckett novel written after *Murphy* and before *Molloy*.
ANSWER: Ian **Watt**

15. **Russ Shafer-Landau has written a book-length defense of this philosophical position. An analogy in which a failed freshman chemistry experiment does not invalidate the atomic laws of gases was used to defend this position by Nicholas Sturgeon against Gilbert Harman. Bernard Williams argued that this position is inconsistent, by noting that conflicts are not soluble "without remainder." One philosopher opposed this position by pointing out that it would require a strange and unique perceptual faculty all its own; that is the "argument from** (*) queerness" against this. John McDowell defended this position by analogizing value properties to secondary rather than primary qualities. This position is usually understood to entail cognitivism and "success theory," and was opposed by J.L. Mackie's "error theory." A non-cognitivist variant proposed by Simon Blackburn is its "quasi" form. For 10 points, name this position that ethical statements express factual truths.
ANSWER: **moral realism** [or **ethical realism**; or **moral objectivism**; or **ethical objectivism**; prompt on "realism" or "objectivism"]

16. **A surprisingly effective ELISA blood test for this human disease uses stainless steel powder. Real-time quaking-induced conversion is used to diagnose this disease, which is characterized by a large bilateral increase in the pulvinar signal. This disease is classified as MM, MV, or VV according to the polymorphism at residue 129 in CD230. This disease is diagnosed by the presence of 14-3-3 protein in the CSF or by round vacuoles in the neuropil that look like daisy flowers. It is caused by a defect in the same protein as** (*) Gerstmann-Straüssler-Scheinker syndrome. In 1997, reports emerged of iatrogenic transmission of this disease from urine-derived gonadotropins or blood transfusions. Both the sporadic and variant forms of it result in accumulation of scrapie-like plaques and give the brain a sponge-like appearance. For 10 points, name this prion disorder, the human equivalent of mad cow.
ANSWER: **Creutzfeldt-Jakob** disease [or **CJD**; or classical **Creutzfeldt-Jakob** disease; or variant **Creutzfeldt-Jakob** disease; prompt on bovine spongiform encephalopathy or BSE; prompt on mad cow disease; prompt on prion disease]

17. **A poem about this event imagines its central figure's triumphal wreath being removed and replaced with a laurel wreath intertwined with thorns. This event is narrated by a real French viscount in the novel *The D'Archiac Papers*. A poem about this event ends by telling its addressees that their black blood will never wash away the sacred blood of its victim. This event was precipitated by one man being satirically named Deputy Grand Master and Historiographer of the Order of Cuckolds. Crows are disturbed by the gunshot that causes this event in Act One of the first play in Stoppard's *The Coast of** (*) Utopia* trilogy, in which this event appears as an inter-scene in Act Two. The victim's wife Natalia had flirted with this event's perpetrator, the French officer Georges-Charles D'Anthes. This event is the subject of Lermontov's "Death of a Poet." For 10 points, name this real-life event that mirrored the fate that its victim had written for the character Lensky.
ANSWER: **death** of Alexander **Pushkin** [accept answers with "murder" or "duel" in place of "death"]

18. **This event's victims are located when three strips of alder bark are laid in magic order and speak. In the quest to undo this crime, a hero finds a scarlet basin full of snakes drinking beer and eating spices, which he finds so disgusting that he cuts them into pieces. A "rock of many colors" hides this deed's victims within an "iron-banded" cavern. While this deed's effects are ongoing, a "maiden of the air" drops a ball of fire out of a cradle in the heavens, leading two heroes to sail to Lake Alue with flax nets, catch a fish that** (*) ate the fire, and cut the fire out of said fish. The two main victims of this crime are freed from their mountain prison in Pohjola in Rune 49 of an epic, just before a rune in which the virgin Marjatta gives birth. For 10 points, name this cosmic property crime done by Louhi after she loses the Sampo, which spurs Vainamoinen's last major quest in the *Kalevala*.
ANSWER: Louhi's **theft** of the **sun**, the **moon**, and fire in the *Kalevala* [accept any answer indicating the **steal**ing, **capture**, im**prisonment**, etc. of the **sun** and **moon**; prompt on "theft of fire" or similar answers which don't mention both the sun and moon specifically; prompt on non-theft-y answers such as "the sun and moon disappearing" or "the earth falling into darkness" or "double eclipse"]

19. *Artist and type of work required.* **On the advice of Zika Ascher, some works of this type, such as *Oceania, the Sky* were turned into silkscreens. One of these works originally spanned a perpendicular corner and was called *The Parakeet and the Mermaid*. A collection of these works were made suitable for printing by Edmond Vaire and include a piece inspired by an aquarium titled *The** (*) Swimmer in the Tank*. The final batch of these works were hung in the artist's home at the Hotel Regina in Nice. After the artist got too hot at a Cannes beach, he created a room-sized one of these works titled *The Swimming Pool*. A swirl of differently colored blocks make up

the title creature's shell in an abstract one of these works called *The Snail*. These works were collected in *Jazz*. For 10 points, name these works made from scissors by the leader of the Fauvists.
ANSWER: Henri **Matisse**'s **cut-out**s [or Henri **Matisse's gouaches découpés**; prompt on Henri <u>Matisse's</u> paper <u>collages</u>]

20. **In a paper, this man expanded Anthony Downs' work by defining a "machine" as a political party which distributes material incentives rather than non-material incentives such as "appeals to principle, the fun of the game, sociability, etc." He compared the DMV in Watertown, Massachusetts to a McDonald's blocks away in a book which claims that the lack of profit-sharing hampers government efficiency. This man wrote the 1961 paper "The Economy of Patronage" and a book subtitled *What government agencies do and why they do it*, entitled** (*) *Bureaucracy.* With a still-living colleague, this dead man co-authored an article in which "regulars" and "strangers" are observed by a foot patrol in Newark, New Jersey; that 1982 article in *The Atlantic* inspired William Bratton's policies under mayor Rudy Giuliani. For 10 points, name this conservative political scientist who, with George Kelling, devised "broken windows" theory.
ANSWER: James Quinn **Wilson**

21. **This man wrote a satirical funding proposal about a system of Ethnic Proportionalism, in which each citizen has an Ethnic Quotient and a Merit Quotient, in *The Sociology of the Absurd: An Application from Professor X.* This man was valedictorian of the white school system in Tulsa a year before John Hope Franklin, his supervisor at UChicago, was valedictorian of its black high school. In one book, this "consensus school" historian wrote that "A celebrity is a person who is well-known for their well-knownness." This man opened one** (*) trilogy with a book on "Man's Search To Know The World And Himself." In a 1962 book, he wrote that press conferences, political debates, and the like are "pseudo-events" staged by news media so as to have something to report on. For 10 points, name this author of *The Image*, a sometime Librarian of Congress who also wrote *The Discoverers* and the *Americans* trilogy.
ANSWER: Daniel **Boorstin**

Bonuses

1. In order to perform this play, the Lord Chamberlain's Men required a special bonus of 40 shillings. For 10 points each:
[10] What play was staged at the behest of supporters of Robert Devereux, despite actors' insistence it was too "out of use" to attract an audience? The day after this play was staged, Devereux took the Lord Keeper hostage and was eventually arrested.
ANSWER: *Richard II* [or *King Richard the Second*]
[10] Robert Devereux, the Earl of Essex, was leading a rebellion against what monarch?
ANSWER: **Elizabeth I** [or **Gloriana**, or **Good Queen Bess**]
[10] Essex's reputation had seriously declined after his failure to defeat Hugh O'Neill in Ireland during what conflict that at its height featured more than 18,000 English soldiers in action?
ANSWER: **Nine Years'** War [or **Tyrone's** Rebellion]

2. The title saint of this painting is flanked on either side by Albert VII and Queen Isabella, both of whom are accompanied by their patron saints. For 10 points each:
[10] Identify this 1630 altarpiece now in Vienna's Kunsthistorisches Museum. The two groups of the Holy Family and John the Baptist's family are divided so as to not be cut off by the seam formed by the two panels on the back of this altarpiece.
ANSWER: *Ildefonso* Altarpiece [or *Ildefonso* Altar]
[10] The *Ildefonso Altarpiece* is the last large altarpiece that this artist painted largely with his own hand. This Flemish artist was earlier commissioned to make the gigantic *Miracles of St. Francis Xavier*, and painted a *Raising of the Cross* for the Antwerp Cathedral.
ANSWER: Peter Paul **Rubens**
[10] *Descriptive answer acceptable.* In this scene from Rubens' *Marie de' Medici* cycle, which comes after the *Education of the Princess*, Jupiter and Juno watch the scene while perched on a cloud alongside an eagle and some peacocks. Hymen and Cupid hold up the title object in this painting.
ANSWER: Henry IV Receives the **Portrait** of Marie de' Medici [accept anything involving Henry viewing Marie de' Medici's **portrait**]

3. As a verb, this word can mean reading a text to uncover unstated or deviant sexual desires within it; a 1994 paper by Lisa Duggan proposed doing this to "the State." For 10 points each:
[10] Give this largely-reclaimed term for non-heteronormative sexual orientations or a person of such an orientation. Foundational texts of its namesake "theory" include Eve Kosofsky Sedgwick's *Epistemology of the Closet*.
ANSWER: **queer** [or **queer**ing the text; or **queer** theory; accept "**Queer**ing the State"]
[10] In essays such as "Is the Rectum Straight?" and "The Beast in the Closet," queer theorist Eve Kosofsky Sedgwick read male same-sex desire into this author, who lived his last four decades in Britain.
ANSWER: Henry **James**
[10] This Yale academic defined queerness as "resistance to regimes of the normal" in his book *Fear of a Queer Planet*. This author of *The Trouble with Normal* edited a 2003 edition of *The Portable Walt Whitman*.
ANSWER: Michael **Warner**

4. Iclusig and Tasigna have replaced Gleevec in treating the chronic myeloid form of this cancer in recent years. For 10 points each:
[10] Name this cancer of the white blood cells in the marrow or in the blood, often contrasted with lymphomas.
ANSWER: **leukemia**s [or **chronic myeloid leukemia**; or **CML**]
[10] Acute leukemia is usually studied *in vitro* with this immortalized cell line of T lymphocytes, which is also a good producer of interleukin-2 and STATs 1, 3, and 5. This cell line was extracted from a 14-year old kid in the 70s.
ANSWER: **Jurkat** cell line [or **JM**]
[10] For instance, the S70A line of Jurkat cells overexpresses this anti-apoptotic protein, which is often overproduced in myeloid leukemias and lymphomas. This protein prevents permeabilization of the mitochondrial membrane by Bax and Bak.
ANSWER: **Bcl-2** [or **B-cell lymphoma 2**; prompt on partial answer]

5. Otto Katz gambles away this character to Lieutenant Luká during a poker game. For 10 points each:
[10] Name this soldier created by Jaroslav Hašek, whose severe incompetence allows him to survive World War I.
ANSWER: Josef **Švejk** [accept either name]
[10] This artist and friend of Hašek produced the illustrations for the posthumous publication of *The Good Soldier Švejk*, and they proved so popular that they have been included in almost all subsequent re-printings.
ANSWER: Josef **Lada**
[10] Surprisingly, some people found World War I less funny. In this grim memoir, Ernst Jünger describes being accidentally shot by his own men at the Vraucourt Line and then being shot in the chest at Favreuil.
ANSWER: ***Storm of Steel*** [or ***In Stahlgewittern***]

6. Answer the following about ways in which contemporary psychology may be coming up short, for 10 points each.
[10] Many psychologists allege a "crisis" named for this type of verification, in which additional research teams do an original experiment over again. When psychologists bother to do it, it often fails to confirm original results.
ANSWER: experimental **replication** [accept **replication** crisis]
[10] Joe Henrich and Ara Norenzayan coined an acronym for the type of society that over 80% of psych studies research, leaving most of the world's minds unstudied. Give either the acronym or the full list of traits.
ANSWER: **WEIRD** [or **Western**, **Educated**, **Industrial**, **Rich**, and **Democratic** societies; if a team opts to give the list of traits, it need not give them in acronymic order]
[10] A 2016 *Slate* article played a figurative sad trombone for this Florida State psychologist, because his popular theory that "ego-depletion" reduces willpower with use is failing to turn up in study after study.
ANSWER: Roy **Baumeister**

7. The people of this country believe in a large class of ghosts called *phi,* including a woman named Nang Tani who haunts banana trees. For 10 points each:
[10] Name this Asian country whose lore includes the ten-headed, twenty-armed demon Thotsakan. Its national epic is an adaptation of the *Ramayana* called the *Ramakien.*
ANSWER: **Thailand**
[10] The Thai goddess Nang Kwak bestows this attribute, which the Hindu Kubera, the Japanese Daikoku-ten, and the Chinese Caishen [*tsai-shen*] also preside over.
ANSWER **wealth** [or **money**; or business **success**; or **prosperity**; prompt on good luck or good fortune]
[10] Thais, Cambodians, and Laotians all tell of this vampiric ghost, who resembles a floating young woman's head with its esophagus and intestines still attached. Her male analogue is Krahang.
ANSWER: **Krasue** [or Phi **Krasue**; or **Ahp**; or **Kasu**; or **penanggalan**]

8. This algorithm tends to work better for long patterns and large alphabets than alternatives such as the Knuth-Morris-Pratt and Rabin-Karp algorithms. For 10 points each:
[10] Identify this doubly eponymous string searching algorithm, which makes use of subroutines called BAD-CHARACTER and GOOD-SUFFIX.
ANSWER: **Boyer-Moore** algorithm
[10] BAD-CHARACTER and GOOD-SUFFIX are sometimes called heuristics even though they're deterministic. An actual heuristic algorithm, A*, typically is faster than Dijkstra's algorithm in performing *this* task.
ANSWER: finding the **shortest path** [or **pathfinding** or **pathing** or **graph traversal** or single-source **shortest path** or single-destination **shortest path** or all-pairs **shortest path**; prompt on searching]
[10] An implementation of the Boyer-Moore algorithm can be found in this C++ library, which consists of many peer-reviewed algorithms. Type Traits, Enable If, and Result Of from this library have effectively been incorporated into the C++11 TR1 proposal.
ANSWER: **Boost**

9. After this jazz pianist's performance at the White House in 1976, Jimmy Carter leaped onto the stage to ask him "Does Horowitz know about you?" For 10 points each:
[10] Name this avant-garde jazz pianist of *Unit Structures* and *Silent Tongues*. He frequently collaborated with soprano saxophonist Steve Lacy, including on his debut album *Jazz Advance*.
ANSWER: Cecil **Taylor**
[10] Cecil Taylor's quartet made an acclaimed live recording at the 1957 iteration of this annual summer jazz festival in New England. Duke Ellington's career was revived by a performance of "Diminuendo and Crescendo in Blue" at the 1956 iteration.

ANSWER: **Newport** Jazz Festival
[10] Cecil Taylor was considered one of the pioneers of 1950's free jazz, along with this recently deceased saxophonist, whose albums include *The Shape of Jazz to Come* and *Sound Grammar*.
ANSWER: Ornette **Coleman**

10. The first title character considers whether to tell the second that "Life is hard; be steel; be a rock" or "Life is a soft loam; be gentle; go easy" in this author's poem "A Father to His Son." For 10 points each:
[10] Name this author who won a Pulitzer Prize for his biography *Abraham Lincoln: The War Years*. He referred to the city you're sitting in as "Hog Butcher for the World."
ANSWER: Carl **Sandburg**
[10] This work by Sandburg begins "The first cry of a newborn baby in Chicago or Zamboango, in Amsterdam or Rangoon, has the same pitch and key." It concludes with a poem ending "There is only one child in the world / and the child's name is All Children."
ANSWER: prologue to The ***Family of Man*** exhibition [accept almost any other word instead of "prologue," such "exhibition commentary," "program notes," etc.]
[10] Sandburg wasn't the only American author to curate photographs with his writing. Eleven years earlier, James Agee wrote text to accompany a collaborator's photographs of sharecroppers hurt by the Great Depression, in this book.
ANSWER: ***Let Us Now Praise Famous Men*** <JL>

11. These objects were originally given as a gift by Pakistan's foreign minister, Syed Sharifuddin Pirzada. For 10 points each:
[10] What objects, rare sights in the country they arrived in, were then given as icons to various worker-peasant propaganda teams in a brief spurt of ecstatic fever begun in 1968? A dentist who reportedly pooh-poohed these objects got put on trial and executed.
ANSWER: golden **mangoes**
[10] This leader of the Gang of Four tried to piggyback on "mango fever" years later by making a film called *Song of the Mango* to enhance her claim to leadership after Mao Zedong's death.
ANSWER: **Jiang** Qing [prompt on "Madame **Mao**"]
[10] Jiang Qing was the leader of a campaign started in 1973 encouraging people to criticize both Confucius and this man. As Defense Minister, he blasted the Soviet Union as "chauvinist" during 1969's Zhenbao Island incident.
ANSWER: **Lin** Biao

12. Much of this man's thought advocated a so-called "preferential option for the poor." For 10 points each:
[10] Name this Peruvian Catholic priest now employed at Notre Dame. Pope Francis met with this man in September 2013, two decades after a pre-papal Joseph Ratzinger was tasked by the Vatican with discrediting this guy as a Marxist.
ANSWER: Gustavo **Gutiérrez** Merino
[10] Gutiérrez was a founder of this radical theological movement, which holds that social structures such as capitalism and politics can embody sin, and ties Jesus's teachings to anti-poverty efforts.
ANSWER: **liberation** theology
[10] Ahn Byung Mu founded this Korean Protestant theology which is often compared to liberation theology. It takes its name from a Korean word for the oppressed class, and advocates a kind of cutting oneself off from the world known as *dan*.
ANSWER: ***minjung*** theology

13. After this event, Count Eduard Taaffe claimed that a man died "due to a rupture of an aneurism of the heart." For 10 points each:
[10] What event was a murder-suicide in which a man shot his lover, Mary Vetsera, and then killed himself while staying at a hunting lodge in the village that lends its name to this event?
ANSWER: the **Mayerling** incident [prompt on death of Rudolf]
[10] The Mayerling incident resulted in the death of Rudolf, the son and heir apparent to this longest-reigning emperor of Austria, who was forced to take Franz Ferdinand as his new heir.
ANSWER: **Franz Joseph** I [or **Francis Joseph** I]
[10] Almost a decade after the death of Rudolf, Franz Joseph's wife, Empress Elizabeth, was killed by this Italian anarchist, who only killed her because he missed a chance to assassinate the Duke of Orleans.

ANSWER: Luigi **Lucheni**

14. Answer the following about women involved in philosophical correspondences during the early modern era, for 10 points each.
[10] This French author of *Letters on the English* wrote to and later lived with Emilie du Chatelet, a physicist who discovered the velocity-squared dependence of kinetic energy. His other penpals included Frederick II of Prussia.
ANSWER: **Voltaire** [or Francois-Marie **Arouet**]
[10] This *non*-Swedish noblewoman wrote to Rene Descartes to get a straight answer as to how an immaterial mind could influence a material body. She didn't get one.
ANSWER: Princess **Elizabeth** of Bohemia
[10] This female author of *Principles of the Most Ancient and Modern Philosophy* was educated by letters from Henry More of the Cambridge Platonists. She used the word "monad" before Leibniz did.
ANSWER: Anne **Conway**

15. This group's first executive secretary was the architect Frederick Law Olmsted. For 10 points each:
[10] Name this Civil War era group led by Henry Whitney Bellows. It raised $25 million to support sick and wounded U.S. Army soldiers, took female volunteers as nurses, and encouraged local communities to set up fairs to raise funds.
ANSWER: United States **Sanitary Commission** [or **USSC**]
[10] This woman was the Superintendent of Army Nurses for the Union Army and occasionally clashed with USSC volunteers. Prior to the war, she was best known for her work in creating state hospitals for the mentally ill.
ANSWER: Dorothea **Dix**
[10] A leader of the USSC was George Templeton Strong, who wrote a diary about the war. Another diarist of the period is this better known South Carolina woman, who described the Confederate perspective. The diaries of both Strong and this woman frequently appear in Ken Burns' *The Civil War* series.
ANSWER: Mary Boykin **Chesnut**

16. This document begins by asking that its writer's daughter not be informed of his death, so she will not grieve for him. For 10 points each:
[10] Name this document that lists stipulations such as "that I be not bury'd in consecrated ground" and "that no one remember me," before concluding with the words: "To this I put my name."
ANSWER: Michael **Henchard's will** [or **Michael's will**]
[10] In the opening chapter of the novel in which he appears, Michael Henchard gets drunk on spiked furmity at the Weydon-Priors fair, and performs this action, which sets the novel's plot into motion.
ANSWER: **sells his wife and child** [prompt on partial answer; accept synonyms for "sells," such as "auctions off"; accept synonyms for "wife and child," such as "family"]
[10] Michael Henchard holds the title political office of this Thomas Hardy novel, in which he is succeeded by his rival, the Scotsman Donald Farfrae.
ANSWER: The ***Mayor of Casterbridge***

17. This theory is diagrammed on a plot which has the substrate in the top left corner, the product in the bottom right corner, and two intermediates on the other corners. For 10 points each:
[10] Name this theory of reaction kinetics which is named for the species found at a local maximum on the potential energy surface. It is described by the Eyring equation.
ANSWER: **transition state** theory [or **TST**]
[10] The pre-factor in the Eyring equation equals Boltzmann's constant times temperature over h-bar, times this dimensionless factor, which is roughly analogous to the probability that a particle tunnels through the potential barrier.
ANSWER: **transmission** coefficient [or **kappa**; or **transmittance**]
[10] Transition state theory fails in this recently-discovered class of reactions, such as the photo-dissociation of aldehydes, in which a bond lengthens considerably without homolyzing, and there is no explicit reaction coordinate.
ANSWER: **roaming** reactions

18. This composer's student Charles Koechlin orchestrated the suite from his incidental music to *Pelléas et Mélisande.* For 10 points each:
[10] Name this French composer who set poems from Verlaine's *La bonne chanson* and whose *Requiem* omits the

"Dies Irae" movement.
ANSWER: Gabriel (Urbain) **Fauré**
[10] This suite by Fauré for piano four-hands opens with a "Berceuse" and closes with a Spanish-tinged piece titled "Le pas espagnol." It was written and named for the daughter of Fauré's then mistress, Emma Bardac.
ANSWER: *Dolly* Suite, Op. 56
[10] Fauré was a favorite subject of this French philosopher of music. His ponderings about the verbal inexpressibility of music's power was popularized by Carolyn Abbate's translation of his *Music and the Ineffable*.
ANSWER: Vladimir **Jankélévitch**

19. This novel consists of dialogue in which each character is represented by a dash, and its implied protagonist is an un-named female author who is recovering from an affair with her ex-professor, Jabalí. For 10 points each:
[10] Name this Spanglish novel by Puerto Rican author Giannina Braschi, which consists of the sections "Close-Up," "Blow-Up," and "Black-Out."
ANSWER: *Yo-Yo Boing!*
[10] A different work called "Blow-Up," originally titled "The Devil's Drool," is by this Argentine author of *62: A Model Kit* and *Hopscotch*.
ANSWER: Julio **Cortázar**
[10] This American translator and friend of Cortázar's launched his own career with his translation of *Hopscotch*. He also created the most popular English translations of *One Hundred Years of Solitude* and *Chronicle of a Death Foretold.*
ANSWER: Gregory **Rabassa**

20. This regime is preceded by an entrance region in which an inviscid, conical core rapidly diminishes. For 10 points each:
[10] Name this regime of flow in pipes which, in the laminar case, begins at the point where the derivative of velocity with respect to the direction of flow becomes zero.
ANSWER: **fully-developed** flow
[10] That point where fully-developed flow begins occurs when these viscous-dominated regions subsume the inviscid flow near the entrance. They result from the no-slip condition and were first defined by Ludwig Prandtl.
ANSWER: **boundary layers**
[10] For the more difficult case of non-circular pipes, analysis can be simplified using the equivalent diameter, which is computed as 4 times the cross section divided by this quantity.
ANSWER: **wetted perimeter**

21. A director from this country spent four years recording the monthly get-together of four elderly women in the 2015 film, *Tea Time*. For 10 points each:
[10] Identify this country, home to the director Pablo Larrain, who chronicled Rene Saavedra's marketing campaign for a 1988 plebiscite in the Oscar-nominated film *No*.
ANSWER: (Republic of) **Chile** [or República de **Chile**]
[10] Chile's only Oscar win came for *Bear Story*, a film which beat out the much superior *The World of Tomorrow* in this category. Previous winners in this category include MGM's *Speedy Gonzales* and Disney's *Ferdinand the Bull*.
ANSWER: Academy Award for Best **Short Film (Animated)** [accept anything involving **animated short** film]
[10] This Chilean-born director played an alchemist who transforms the feces of a Jesus-like thief into gold in his film, *The Holy Mountain*. He scored a cult hit with his 1970 Western, *El Topo*.
ANSWER: Alejandro **Jodorowsky** Prullansky