



ACADEMIC  
COMPETITION  
FEDERATION

ACF NATIONALS 2018

ROUND 2  
PRELIMS 2

packet by  
MINNESOTA A

authors

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## Tossups

1. After hearing a tale originally told by Shiva to Parvati, Gunadhya wrote that tale down on this many manuscripts in his own blood and burned all but one, which became the *Brihatkatha*. Along with Yogeshwari, the gods created this number of Matrikas to defeat Andhaka, a demon who generated copies of himself from his blood. Arundhati was the only member of a group of this many women *not* to become what the *Atharvaveda* (ah-TAR-vah-VAY-dah) calls “the cutters,” or the *Krittika*. Knowing that Agni desired a group of this many wives, Svaha wooed him by disguising herself as several of those women. According to the *Rig Veda*, Indra destroyed Vritra’s (VREE-tra’s) 99 fortresses to free this number of rivers, corresponding to Saraswati and her sisters. A group of this many wise men in Hinduism includes Jamadagni (jah-MAH-dahg-nee), Kashyapa (KAHSH-yah-pah), and Vasistha (vah-SHEESH-tah). Those *rishis*, who correspond to the stars in Ursa Major, exemplify a common Asian motif of this many sages. For 10 points, give the number of sisters who make up the Pleiades in many mythologies.

ANSWER: seven [accept *saptarishi* or Seven Sages]

2. The RscS (“R-S-C-S”) hybrid sensor kinase alters the host range of one bacterium in this genus by inducing release of the Syp (“sip”) exo-poly-saccharide. Rosenberg and Zilber-Rosenberg revived the hologenome concept after observing patterns of resistance to the *shiloi* species of this genus, which causes coral bleaching. The shortest known doubling time of any organism is in the *natrigens* member of this genus. A member of this genus produces a protein complex with five B subunits which form a ring that binds to GM1 gangliosides on target cells. ADP-ribosylation factors were discovered while researching the action of a toxin produced by a member of this genus. An organism moved out of this genus in 2007 uses quorum sensing to control the *Lux* operon. A member of this genus causes a disease whose symptoms include rice-water stool and can be transmitted through untreated sewage. For 10 points, name this Gram-negative bacterial genus whose comma-shaped members include the causative agent of cholera.

ANSWER: Vibrio [accept *Alivibrio* before mention]

3. Early in his rule, this ruler replaced his entire government in 24 hours with a group of temporary advisors known as the “Marionette Cabinet,” after which he staged a series of so-called “spontaneous demonstrations” complete with fireworks shows to release info to his subjects. This ruler was attacked by Beqir Walter, a member of the radical Bashkimi Club, which resulted in the killing of this man’s political opponent Avni Rustemi. After this man broke off an engagement, he feared that he would be poisoned and appointed his mother, Sadije (sah-DEE-yeh), to oversee food in the royal kitchen. This man re-entered the theater carrying a pistol after an attempt on his life was made at a Vienna performance of *Pagliacci*. This ruler’s Christmas Eve coup ended the democratizing efforts of Fan Noli. This king was forced to flee his country with his son, Crown Prince Leka, after this man was deposed by Benito Mussolini. For 10 points, name this former prime minister, president, and king of Albania.

ANSWER: King Zog I of Albania [or Zogu or Ahmet Muhtar Zogolli]

4. The leader of a long-term experiment on these non-rodent mammals replaced Nikolai Dubinin as the head of an institute after Nikita Khrushchev’s support for Lysenkoism led him to sack Dubinin. A set of behavioral assays performed on these animals as part of that experiment grouped them into Class I, II, or III based on whether they would accept food from an experimenter’s hand, as described in a book co-authored by Lee Dugatkin. At the Institute of Cytology and Genetics in the Russian Academy of Sciences, Dmitry Belyayev and Lyudmila Trut have led a 60-year-old genetic experiment to domesticate the silver morph of these animals, resulting in a population of them with curly tails and floppy ears. A small but large-eared species of these animals called the fennec is found in the Sahara Desert. For 10 points, name this type of bushy-tailed canid whose common “red” species has the scientific name *Vulpes vulpes*.

ANSWER: foxes [accept Vulpes before “*Vulpes*”]

5. A poem in this collection describes something the title man wanted to keep in a place “where everything is silence and the / beating of a bloody hand upon / a splintered table.” The last section of this collection is a long address to the feral boy Victor of Aveyron titled “Meditations for a Savage Child.” This book’s title poem claims that “the words are purposes” and “the words are maps” and notes “we are, I am, you are by cowardice or courage the one who find our way back to this scene.” This collection, which split the National Book Award for Poetry with Allen Ginsberg’s *The Fall of America*, includes “The Ninth Symphony of Beethoven at Last Understood as a Sexual Message.” The speaker of this collection’s title poem carries “a book of myths in which our names do not appear” and has to perform the title action “not like Cousteau with his / assiduous team” but with an “awkward mask” and “absurd flippers.” For 10 points, name this Adrienne Rich collection titled for an action of underwater exploration.

ANSWER: Diving into the Wreck

6. The right panel of this work copies the coffered ceiling of the Basilica of Maxentius to depict the Temple of Jerusalem, where Joseph is kneeling with a pair of doves before the priest Simeon. In another section of this work, a peacock and two birds are pecking at food while Zachariah greets a pregnant Mary. In its center panel, a sponge lies on top of an inscription written in Hebrew, Latin, and Greek; the inscription itself leans against a copper basin of semi-congealed blood containing three nails. In this work, an old man bracing himself against a wooden beam holds a white shroud with his teeth while supporting a mostly bare body in a pose reversed from Laocoon's in the sculpture group. In this triptych located in Antwerp Cathedral, St. John has one foot on a ladder while helping Joseph of Arimathea and Nicodemus steady a collapsing body. For 10 points, name this triptych by Peter Paul Rubens whose central panel depicts the removal of the crucified body of Jesus.

ANSWER: *The Descent from the Cross* triptych

7. Steven Olley and Ariel Pakes developed a technique that accounts for simultaneity and selection bias when estimating parameters of these entities. Franklin Fisher criticized the stringent assumptions necessary for the “micro” version of these mathematical entities to aggregate to a “macro” one. The translog example of these objects is commonly used in estimation because it is linear in parameters and is an approximation of the CES type. A 2014 paper by Loukas Karabarbounis and Brent Neiman estimates one of their parameters to be about 1.25 and uses that fact to link falling investment prices to the declining labor share. The Inada conditions impose restrictions on the partial derivatives of these entities. A residual from estimating them is called “technical productivity” or “total factor productivity.” Inputs and outputs are related by, for 10 points, what mathematical entities, one of which was created in a collaboration between Paul Douglas and Charles Cobb?

ANSWER: production functions [accept microeconomic production functions or macroeconomic production functions or translog production function or CES production function or Cobb-Douglas production function; prompt on “functions”]

8. A speech titled for the “greatness” of this era claims that it is characterized by oligarchs leading a popular movement where the “social system compact” is “closely knitted, less splendid on the surface, but stronger at the core.” The journalist W. J. Cash wrote an essay to debunk the notion that this period was a discontinuous break from the past. A man dubbed the “apostle” of this period was the newspaper editor of the *Constitution*, Henry W. Grady. In a work titled for this period’s “promise,” Ed Ayers emphasized the important role of businessmen like Thomas A. Scott. A book about this period places its end at the date of Woodrow Wilson’s inauguration; that book by C. Vann Woodward is on the “origins” of this era. Its starting date is often given as 1877, when federal troops were removed and race relations became more flexible. For 10 points, give this two-word historiographical phrase that attempts to describe a more modern region of the postbellum, post-Reconstruction U.S.

ANSWER: New South [prompt on “the South”; accept “The Greatness of the New South” or *The Promise of the New South* or *Origins of the New South* or New South Democracy or New South Creed; do not accept or prompt on “Reconstruction”]

9. This author included an unconventional list of props including “smell effects: incense . . . dirt / filth smells / bodies” at the beginning of a play subtitled “A Historical Pageant.” In a play by this author, a woman says “you look like you’ve been reading Chinese poetry and drinking lukewarm sugarless tea; you look like death eating a soda cracker,” prompting the protagonist to wonder if she knows Warren Enright. A play by this author ends with the revolutionary Walker Vessels being injured by an explosion that is implied to have killed the two “freakish mulatto” daughters he had with his ex-wife Grace. A character who enters the stage eating an apple enrages the protagonist by calling him “Uncle Thomas Woolly-Head” before stabbing him in a play by this author about Lulu and Clay’s conversation on a New York City subway car. For 10 points, name this African-American author of the plays *The Slave Ship*, *The Slave*, and *Dutchman*.

ANSWER: Amiri Baraka [or (Everett) LeRoi Jones; or Imamu Amear Baraka]

10. These compounds are formed from the hydrolysis of a type of ester that typically contains pinacol. The MIDA ligand is used as a protecting group for these compounds by rehybridizing their centers from  $sp^2$  to  $sp^3$  (“s-p-two to s-p-three”). One of these compounds reacts with an amine and an aldehyde to perform a Mannich-like reaction named for Petasis. One of these functional groups replaces a leucine’s carboxyl group in the structure of the proteasome inhibitor bortezomib. Dehydrating these compounds causes them to trimerize into a compound containing a planar six-membered ring. In an undesirable side reaction, this functionality is protonated and cleaved, yielding its alkyl or aryl group, which occurs in coupling reactions such as the Chan-Lam or Suzuki reaction. These compounds are typically prepared by reacting a Grignard reagent with a borate ester. For 10 points name these organoborane compounds containing a boron bonded to an alkyl or aryl group and two hydroxyl groups.

ANSWER: boronic acids [accept boronates; do not accept or prompt on “boric acid(s)”]

11. Part of this line of poetry supplies the title of a memoir that depicts life in Czernowitz ("CHAIR"-noh-vitz) after World War I via literary portraits of Gregor von Rezzori's family members. Part of this line is flashed on the screen after Tom says that "I think the rest of the play will explain itself" in the opening monologue of *The Glass Menagerie*. After lamenting the "decline of faith in the Spirit World," Madame Arcati recites this line in its original French in Noel Coward's *Blithe Spirit*. This line closes a stanza describing the death of Jean Buridan, who was sewn into a sack and cast into the Seine. This line is repeated in a poem that opens: "tell me now in what hidden way is / Lady Flora the lovely Roman?" Dante Gabriel Rossetti coined a new word to translate the final word of this line, *antan*. This is the refrain of a poem from *Le Testament* that asks where Queen Blanche, Héloïse, and Joan of Arc have gone. For 10 points, give the refrain of François Villon's "The Ballad of Dead Ladies," which laments the passage of time.

ANSWER: "but where are the snows of yesteryear?" [or "mais où sont les neiges d'antan?"]; accept longer answers that include either of the underlined portions; prompt on "the snows of yesteryear" or "les neiges d'antan"]

12. One work by this man analogizes the heart to a mirror that can reflect the light of God only when polished by "disciplining the soul." This man wrote that, when cotton is lit on fire, it is God, and not the fire, that burns the cotton. This man, who compiled some of his works during a long stay atop the Golden Gate in Jerusalem, began his search for *yaqeen* (yah-keen), or complete certainty, to cure his skepticism of sense-data. He included "The Marvels of the Heart" in the third section of a work comprising four sections of ten books each. He argued that jurisprudence should aim to protect the "five necessities." Sunnis reserve the title "Hujjat al-Islam," or "proof of Islam," for this theologian, who explained his turn toward Sufism in his spiritual autobiography *Deliverance from Error*. He listed 20 heretical propositions and defended Al-Ash'ari's occasionalism in an attack on the *falsafa* of Avicenna. For 10 points, name this Islamic mystic who wrote *The Revival of the Religious Sciences* and *The Incoherence of the Philosophers*.

ANSWER: Al-Ghazali [Abu Hamid Muhammad ibn Muhammad al-Ghazali; or Algazelus]

13. The founder of this kingdom was said to have risen from a lake during a dispute over a forest that nearly led to bloodshed, which that founder then mediated. After that event, this kingdom's founder was tricked into reappearing, was kidnapped and offered a beautiful wife, and asked to stay as king. That man spoke the language Pulaar, which was foreign to the people of this kingdom. Women were able to rule states in this kingdom through the office of the *Bur* and could influence politics as *Linger*, or Queen Mother. The Denkanye and Kaabu kingdoms rose when this empire broke apart after the Battle of Danki. This empire, founded by Ndiadiane Ndiaye (n'jah-jahn-ay n'jah-yay) in AD 1350, collected tribute from its vassal states such as Walo and Sine despite tribute being forbidden by Serer tradition. Its territory was later absorbed by the imamate of Futa Jallon. For 10 points, name this empire, the namesake of a major ethnicity and language in the Gambia and Senegal.

ANSWER: Wolof empire [or Jolof Empire; or Djolof Empire; accept other polity types such as "kingdom" in place of "empire"]

14. The time required for this process to go from the most remote point in the area of interest to the outlet is called the "time of concentration." The peak rate of this process is estimated by the so-called "rational method" that sets it equal to an empirical coefficient times the discharge area times the precipitation intensity. In a model by Robert E. Horton, the exponential decay of a *different* process over time during a storm causes this process to increase. The "infiltration excess" mechanism of this process occurs due to limitations on the infiltration rate, whereas the "saturation excess" mechanism occurs due to soil saturation. High rainfall and impervious surfaces in urban areas increase the rate of this hydrological process, which is a dominant cause of soil erosion. For 10 points, name this flow of excess water on the surface of a landscape.

ANSWER: surface runoff [or overland flow; accept surface runoff rate; prompt on "surface flow"; prompt on "discharge" before "discharge"]

15. A concerto in C major for this instrument is the most popular instrumental piece by François-Adrien Boieldieu (bwal-dee-oo). In Brahms's *A German Requiem*, this instrument first enters on the word "Tränen" (tray-nen), or "tears," and later plays the closing melodies of both the first and last movements. The composer of *La Source*, Alphonse Hasselmans, taught this instrument at the Paris Conservatoire. The modern version of this non-piano instrument was pioneered by Sébastien Érard. Two of these instruments play the opening theme of *Výšehrad* (vih-SHEH-heh-rad) from *Ma Vlast*. Debussy wrote a sonata for flute, viola, and this instrument, and after the flute's opening phrase in the *Prelude to the Afternoon of a Faun*, this instrument plays a glissando. It is usually played without the pinky fingers, and the "concert" version of this instrument has seven double-action pedals. For 10 points, name this instrument with 47 strings.

ANSWER: concert harp(s) [or pedal harp(s)]

16. A thinker from this country posited a “thesis of pansomatism,” in which “*a* is a thing” is equivalent to “*a* is an extended and resistant object,” as part of his idea that only “things” exist, called reism. A radical nominalist from this country developed a hierarchy of Protothetic, Ontological, and Mereological systems of logic. Thinkers from this country replaced traditional signs for logical operations with the letters ‘N’, ‘K’, ‘A’, ‘C’, and ‘E’. A logician from this country attempted to solve the problem of future contingents by introducing an “undetermined” truth value, resulting in the first modern many-valued logic. After proving an “undefinability theorem,” a logician from this country defined the material adequacy condition, under which a statement “P” is true in the object language if and only if P is true in the metalanguage; that is his semantic theory of truth. For 10 points, what country’s Lviv school produced the logicians Alfred Tarski, Jan Łukasiewicz, Tadeusz Kotarbiński, and Stanisław Leśniewski?

ANSWER: **Poland** [or **Polska**; or Republic of **Poland**; or Rzeczpospolita **Polska**]

17. The narrator asks this character “do the people in your country love you?” instead of relaying an offer of tea in a scene of Javier Mariás’s *A Heart So White* that translates a conversation between a Spanish man and this person. An effigy of this figure is often picked for burning at the Club Hot Wax in *The Satanic Verses*, in which Chamcha nicknames this person “Torture.” In a short story, a character initially mistaken for the son of the boiler man Duggan enters the narrator’s house to wait for this character to leave an eye surgery, then says “fucking rejoice” after killing her. Nick Guest retreats to the bathroom for a threesome with his lover Wani and a waiter after dancing with this woman in Alan Hollinghurst’s *The Line of Beauty*. The title story of 2014 Hilary Mantel short story collection is about this person’s fictional assassination by an IRA operative. For 10 points, Jonathan Lee’s novel *High Dive* is about an attempt to kill what woman nicknamed “Maggie” at the Brighton Hotel?

ANSWER: Margaret **Thatcher** [or Margaret Hilda **Thatcher**; accept *The Assassination of Margaret Thatcher*; prompt on “Maggie” or “Margaret” before “Maggie”; prompt on the Englishwoman or the British politician before “*Satanic*”]

18. After a battle fought in this country, the winner placed five bright blue shields on his buckler to depict the five kings he defeated, according to the account of his advisor St. Theotoniuss. Another battle that took place in this country allegedly involved a six-fingered baker woman who killed eight enemies with a shovel while hiding in her shop. After a wing in the sky signaled victory in battle, the order “Michael of the Wing” was founded in this country by a king whose son was given the nickname “the Populator” for leading settlers to northern stretches of this country. A vanguard of bachelor soldiers called the “Lover’s Flank” joined a group called the “Honeysuckle Flank” in a key medieval clash in this country, the Battle of Aljubarrota (AHL-zhu-bar-oh-tah). That battle led to the rise of a dynasty whose founder was succeeded by Edward the Philosopher. For 10 points, name this country whose Aviz Dynasty included Prince Henry the Navigator.

ANSWER: **Portugal** [or Kingdom of **Portugal**; or Reino de **Portugal**]

19. In a work shown at 1982’s *documenta 7* exhibition, this artist juxtaposed a mural-sized photograph of an antiwar demonstration with a portrait of Ronald Reagan placed behind a velvet rope. That work by this artist is *Ölgenälde: Hommage à Marcel Broodthaers*. Hilton Kramer accused this artist of undermining “the very idea of art as a realm of aesthetic discourse” in a review of his *U.S. Isolation Box, Grenada, 1983*. For another work, this artist used a mock-cornice to frame three banners, one advertising a Nigerian art exhibition sponsored by an oil company, the other two quoting the company’s refusal to boycott South Africa’s government. This artist behind *MetroMobiltan* exposed the network of corporations used by the Shapolsky family to control low-income housing in a work rejected by the Guggenheim. He used transparent ballot boxes to poll the MoMA’s visitors about Nelson Rockefeller’s stance on the Vietnam War. For 10 points, name this German artist, a leading proponent of institutional critique.

ANSWER: Hans **Haacke** (HAH-kuh)

20. By detecting the decay of these particles, the Fermi Large Area Telescope provided direct evidence of cosmic-ray proton acceleration in supernova remnants. These particles appear at the left and right ends of the “S equals zero” line on the pseudoscalar nonet diagram. The fact that these particles would be produced by way of delta baryons in interactions between the CMBR and cosmic rays led to the formulation of the GZK limit. While the neutral variety of these particles usually decays into two photons, it can decay into a photon and an electron-positron pair in Dalitz decay. The charged versions of these particles usually decay into a muon and muon neutrino. These particles were wrongly predicted by Yukawa to be the carriers of the strong force and were first identified by their “double meson” tracks. For 10 points, name these first-generation mesons whose charged versions contain “up and anti-down” or “down and anti-up” quarks.

ANSWER: **pions** [accept **pi mesons**; accept **neutral pions** or **neutral pi mesons** before “left”; accept **pi** after the first mention of “meson”; prompt on “mesons”]

**Bonuses**

1. These people mainly prospered by buying and trading wares, and the geographer al-Istakhri notes that the only native product they exported was isinglass. For 10 points each:

[10] Name these people who won the Battle of Ardabil under Barjik at Darial Pass. One of their kings had a “correspondence” with Hasdai ibn Shaprut, the foreign secretary to the Caliph of Cordoba.

ANSWER: **Khazars** [or **Hazalar**; accept **Khazaria**]

[10] The Kievan Rus’ conquered the Khazars by taking this stronghold. This location was built with resources from emperor Theophilus in exchange for giving up land in the Chersonesus, and it was named in honor of its white limestone bricks.

ANSWER: **Sarkel** [or **Sharkil**]

[10] Under their kagan, Bulan, who was believed to be descended from Obadiah, the Khazars converted to this religion. A different war against Zealots of this religion involved a siege of the Masada fortress.

ANSWER: **Judaism** [accept **Jewish** religion or other answers mentioning forms of the word **Judaism** or **Jew**]

2. This scientist proved that communities whose interaction matrices are generated at random are less likely to be stable as the number of species increases, a fact that led many ecologists to believe that biodiversity has destabilizing effects. For 10 points each:

[10] Name this mathematical ecologist who wrote *Stability and Complexity in Model Ecosystems* and worked with Roy Anderson to build a series of influential models of infectious disease.

ANSWER: Robert **May** [or Robert McCredie **May**; or Baron **May** of Oxford]

[10] May discovered that even simple discrete models of single-species population dynamics, like the logistic map, can display this mathematical phenomenon, whose characteristics include high sensitivity to initial conditions.

ANSWER: **chaos**

[10] May and W. D. Hamilton developed a model of this behavior that counterintuitively predicts that it will still occur even if it results in certain death. This behavior is often modeled with a kernel that describes probability as a function of distance, and is the only factor connecting patches in a metapopulation.

ANSWER: **dispersal** [or **migration**; accept forms of the words **disperse** or **migrate**]

3. This author took W. H. Auden to task for using “capitalized personified abstraction” in a series of critical lectures that prompted Auden to note that this man “must be in love with me.” For 10 points each:

[10] Name this author who collected his criticism in *Poetry and the Age* and was inspired by his time teaching at Sarah Lawrence College to pen the satirical novel *Pictures from an Institution*.

ANSWER: Randall **Jarrell** (juh-REL)

[10] Jarrell’s prose works include popular works in this genre titled *The Bat Poet* and *The Animal Family*, both of which were illustrated by an author known for his work in this genre, Maurice Sendak.

ANSWER: **children’s** books [accept any answers mentioning fiction or literature for **children** or **kids**]

[10] This essay by another author cites Jarrell’s essay on Walt Whitman as a rare example of the type of “criticism which [supplies] a really accurate, sharp, loving description of the appearance of a work of art” that this essay advocates.

ANSWER: “**Against Interpretation**” [by Susan Sontag]

4. An artwork showing a man wielding a rope made of this substance was inspired by the Elvis Presley film *Loving You* and Andy Warhol’s image *Elvis*. For 10 points each:

[10] Name this substance that forms the lasso wielded by the naked man in Takashi Murakami’s *My Lonesome Cowboy*.

ANSWER: **semen** [accept **sperm** or **ejaculate** or **cum** or similar answers]

[10] Murakami founded an art movement named for the “super” form of this quality. Pop art was concerned with reproducing this quality of extreme two-dimensionality as found in comics and other mass media.

ANSWER: **flatness** [accept **superflat** or forms of the word **flat**]

[10] This art critic’s 1955 essay “American-Type Painting” argued that the abstract expressionists brought the idea of flatness to the center of American art. That essay was an early writing among many in which this author promoted the work of Jackson Pollock.

ANSWER: Clement **Greenberg**

5. In the U.K., the “shy Tory factor” is a phenomenon similar to this one. For 10 points each:

[10] Name this problem in political polling caused by respondents giving what they believe to be the socially desirable response rather than the true one. Its name comes from California’s 1982 gubernatorial election, in which the African-American candidate was ahead in the polls but lost anyway.

ANSWER: **Bradley** effect [accept **Wilder** effect]

[10] The American National Election Studies are administered by this university and Stanford. Researchers from this university wrote the 1960 book *The American Voter* based on their data collection since 1948.

ANSWER: University of **Michigan** [or **UMich**; prompt on “**U of M**” or “**UM**”]

[10] *The American Voter* concluded that this variable was the basis for most voters’ choices. The “Michigan model” holds that this variable rarely changes except in “realignment elections” and predicts that people who have a “strong” form of it will engage in straight-ticket voting.

ANSWER: **party affiliation** [or **party identification**; or **party membership**; accept **partisanship**; accept any answer indicating the political **party a person identifies as a member of**]

6. This object, found by Flinders Petrie and translated by Wilhelm Spiegelberg, contains a short passage mentioning that “Israel is laid to waste” but “its seed is not.” For 10 points each:

[10] Identify this monument named for the successor to Ramses the Great, which describes that Pharaoh’s repulsion of a Libyan raid in his fifth year and his suppression of Canaanite revolts.

ANSWER: **Merneptah Stele** [or Victory **Stele** of **Merneptah**, prompt on “**Israel Stele**” or “**Merneptah**”]

[10] A statue base with the name of Ramses IV from this place is the last Egyptian reference to Canaan. This site of Thutmose III’s victory over the king of Kadesh in circa 1482 BC was known to the Greeks as “Armageddon.”

ANSWER: Tel **Megiddo** [accept Battle of **Megiddo**]

[10] The grandfather of Flinders Petrie, Matthew Flinders, was the first man to circumnavigate Australia, which he did in the company of this Aboriginal man, a chief of the Broken Bay Tribe. This man is the first ever recorded Australian person.

ANSWER: **Bungaree** [or **Boongaree**]

7. This poet lamented the “little faith and much forgetting / of him whose return I, weary, am bereaved” in “By Now I Am So Tired of Waiting.” For 10 points each:

[10] Name this Italian Renaissance poet, many of whose 311 poems were inspired by her broken relationship by Count Collaltino di Collalto.

ANSWER: Gaspara **Stampa**

[10] Stampa lived most of her life in this Italian city. This city was the birthplace of Giacomo Casanova, whose *Histoire de ma vie* describes his imprisonment in its Doge’s Palace.

ANSWER: **Venice** [or **Venezia**; or Republic of **Venice**]

[10] Another woman poet of the Renaissance, Vittoria Colonna, exchanged sonnets with this author of many poems about his love for Tommaso Cavalieri. Another sonnet by this artist notes that “not even the best of artists has any conception / that a single marble block does not contain.”

ANSWER: **Michelangelo** Buonarroti [or Michelangelo (di Lodovico) **Buonarroti** (Simoni)]

8. A group at this university published pamphlets like “Swarmachines,” which approvingly describes jungle music as “the abstract diagram of planetary inhuman becoming.” For 10 points each:

[10] Name this university where the student-run collective Ccru operated in the 1990s. Members of Ccru, including Sadie Plant and Nick Land, popularized ideas like accelerationism and speculative realism while working here.

ANSWER: University of **Warwick**

[10] A book by Ccru co-founder Mark Fisher, also known as k-punk, asks whether there is “no alternative” to a form of “realism” dominated by this economic system characterized by private ownership of the means of production.

ANSWER: **capitalism** [accept answers mentioning forms of the word **capitalist**]

[10] Mark Fisher’s book *Ghosts of My Life* appropriated the term “hauntology” to describe a “nostalgia for lost futures” from this Jacques Derrida book, which describes the ten plagues of global capitalism and the emergence of a New International.

ANSWER: **Specters of Marx** [or **Spectres de Marx**]

9. Groups with unshared electron pairs tend to be strongly activating and ortho/para-directing for this reaction. For 10 points each:

[10] Name this reaction, a subset of which are Friedel-Crafts reactions. In this reaction, an atom on an aromatic ring, typically a hydrogen, is replaced by an electron deficient species.

ANSWER: **electrophilic aromatic substitution(s)** [or **EAS**]

[10] In this type of EAS, a non-hydrogen substituent is replaced by the electrophile. Trimethylsilyl and tert-butyl are considered directing for this sort of reaction due to their stable carbocation formation.

ANSWER: ***ipso***-substitution

[10] An intramolecular *ipso*-substitution occurs in the Hayashi rearrangement, whose intermediate is considered one of these compounds in which multiple rings are linked at a single atom.

ANSWER: **spiro** compound

10. The curtain-raiser for this opera was the play *Crypto-conchoid-symphono-stomata*, whose hit song “What An Afternoon!” includes such dopey lyrics as “he also moved his legs when he walked.” For 10 points each:

[10] Name this 1875 one-act opera about a case concerning breach of promise of marriage. The judge in this opera sings a patter song about how he attained his position by falling for “a rich attorney’s / elderly, ugly daughter.”

ANSWER: ***Trial by Jury***

[10] *Trial by Jury* is the earliest surviving opera by this composer-librettist duo, whose later works included *The Yeoman of the Guard* and *The Mikado*.

ANSWER: **Gilbert** and **Sullivan** [or William Schwenck (or W. S.) **Gilbert** and Arthur (Seymour) **Sullivan**; accept names in either order]

[10] *Crypto-conchoid-symphono-stomata* and *Trial by Jury* were on a triple-bill with *La Périchole*, an opéra bouffe by this composer. Josephine Baker starred in a later hit performance of this man’s opera *La Créole*.

ANSWER: Jacques **Offenbach**

11. The definitive translation of this word into Latin yielded two results—*supersubstantialem* and *quotidianum*—for its two appearances. For 10 points each:

[10] Name this disputed Greek adjective that modifies the word “artos” in both of those appearances.

ANSWER: ***epiousios*** [or ***epiousion***]

[10] In the Lord’s Prayer, the phrase *epiousios artos* is usually translated as a “daily” form of this substance, which God is said to “give us this day.”

ANSWER: (our) daily **bread**

[10] Catholic doctrine splits the Lord’s Prayer into seven of these divisions, with the phrase “daily bread” coming in the fourth. Catholics do not typically recite the doxology that follows the seventh of these divisions.

ANSWER: **petitions** [or **petitiones**]

12. This man was derided as “the metaphysician of the homemade intellectual, and the prophet of the cracker-barrel agnostic” in an essay describing his “vogue.” For 10 points each:

[10] Name this best-selling intellectual author in late-19th-century America, where his works were championed and published by Edward Youmans, the founder of *Popular Science* magazine.

ANSWER: Herbert **Spencer** [accept “The **Vogue of Spencer**”]

[10] “The Vogue of Spencer” is the second chapter of a book on this theory “in American thought.” Spencer was a leading proponent of what later came to be known as this theory, which applied evolutionary principles to argue that the “survival of the fittest” dominated societal and economic considerations.

ANSWER: **social Darwinism** [or **social Darwinists**; accept ***Social Darwinism in American Thought***]

[10] *Social Darwinism in American Thought* was a book by this historian, who wrote the 1963 book *Anti-Intellectualism in American Life*.

ANSWER: Richard **Hofstadter**

13. These diamond-shaped diagrams improved upon Kruskal-Szekeres diagrams by “crunching” distances further away. For 10 points each:

[10] Name these diagrams often used to represent causal structures of spacetimes containing black holes.

ANSWER: **Penrose** diagrams [or **Penrose-Carter** diagrams; or Carter-**Penrose** diagrams]

[10] In addition to representing infinity, diagonal lines on Penrose diagrams are used to represent these surfaces of spacetime. A particle that crosses one of these surfaces around a Schwarzschild black hole can never return.

ANSWER: event **horizon**s

[10] This cosmological model was popularized by Penrose in a book subtitled “An Extraordinary New View of the Universe” and identifies a future time-like infinity with a Big Bang singularity.

ANSWER: **conformal cyclic** cosmology [prompt on “cyclic” or “*Cycles of Time*”]

14. Ali-Shir Nava’i’s *Comparison of the Two Languages* pointed out that this language has nine words for different species of ducks in championing the richness and flexibility of this language over Persian. For 10 points each:

[10] Name this prominent literary language of Turkic Central Asia. Mughal emperor Babur’s autobiography, the *Baburnama*, was written in this language.

ANSWER: **Chagatai** language [or **Jagatay** language; accept **Old Uzbek** language]

[10] Nava’i’s most famous works were ghazals and couplets included in these kinds of single-author poetry collections from Islamic cultures. Poets such as Hafez and Fuzuli contributed to this tradition, which Goethe imitated with his *West-Eastern* one.

ANSWER: **divans** [or **diwans**; accept **West-Eastern Divan** or **West-östlicher Divan**]

[10] Divan poetry was often influenced by Sufi masters such as this poet, who exhorted “listen to the reed and the tale it tells” in the “Song of the Reed” that opens his *Masnawi*, or *Spiritual Couplets*.

ANSWER: **Rumi** [or Jala al-Din Muhammad **Balkhi**]

15. This genre arrived in England via the *Musica Transalpina* collections published by Nicholas Yonge. For 10 points each:

[10] Name this genre of secular polyphonic song which reached its apex in late-16th-century Italy. Unlike the motet, this genre was usually written in the vernacular.

ANSWER: **madrigals**

[10] In his last two books of madrigals, which include “Moro, lasso, al mio duolo,” this Italian composer wrote some of the most chromatic music of the Renaissance era, possibly out of guilt over killing his first wife and her lover.

ANSWER: Carlo **Gesualdo** [or Carlo **Gesualdo** da Venosa]

[10] The 16th-century madrigal is stylistically distinct from the older “trecento” madrigal, whose master is generally considered to be this Florentine. He lends his name to a cadence in which the leading tone drops to the sixth scale degree before resolving.

ANSWER: Francesco **Landini** [or Francesco **Landino**; or Francesco degli **Organi**, Francesco il **Cieco**, or Francesco da **Firenze**; accept **Landini** cadence or **Landino** sixth; prompt on “Francesco”]

16. In this sport, terminating flourishes known as “suskwiet” are counted with chalk tally marks on a long wooden rod. For 10 points each:

[10] Name this Flemish sport in which male birds known as chaffinches are bred and trained to call as many times as they can within an hour.

ANSWER: **vinkensport** [or **vinkenzetting**]

[10] The former practice of blinding the finches in vinkensport led this English poet to write “The Blinded Bird.” A bleak winter is interrupted by a “full-hearted evensong / of joy illimited” in this man’s poem “The Darkling Thrush.”

ANSWER: Thomas **Hardy**

[10] Hardy was also an active supporter of this cause, some of whose members, including Frances Power Cobbe, were attacked after erecting a statue of a brown terrier in Battersea Park. The physiologist François Magendie was a frequent target of ire for proponents of this cause.

ANSWER: **anti-vivisection** [accept any answer indicating **opposition** to **vivisection** or **animal experimentation**]

17. The characters of this book give food to the milkmaid Maudlin in exchange for her singing of Marlowe's "The Passionate Shepherd to His Love." For 10 points each:

[10] Name this book of conversations between Venator and Piscator by Izaak Walton.

ANSWER: The *Compleat Angler*

[10] Izaak Walton, like his contemporary John Aubrey, wrote a popular set of brief works in this genre. James Boswell wrote a work in this genre about Samuel Johnson.

ANSWER: biographies [or biography; or lives; or a life; accept Walton's Lives or Brief Lives or Boswell's Life of Johnson or The Life of Samuel Johnson, LL.D]

[10] One of the best-known of *Walton's Lives* is that of Henry Wotton, a man of this profession to whom Walton attributes the definition of a man with this job as "an honest gentleman" who lies for "the good of his country." English poets with this occupation included Matthew Prior and Thomas Wyatt.

ANSWER: ambassadors [or diplomats; prompt on "courtiers"]

18. Pat Manion convinced Leo Brent Bozell, the brother-in-law of William F. Buckley Jr., to ghostwrite this political manifesto for a man that Bozell would later serve as speechwriter. For 10 points each:

[10] Name this 1960 book published under the name of future presidential candidate Barry Goldwater.

ANSWER: The *Conscience of a Conservative*

[10] This man's 1953 book *The Conservative Mind* presented a history of conservative thought from Edmund Burke to Santayana. He also developed the "six canons" of conservatism.

ANSWER: Russell Kirk [or Russell Amos Kirk]

[10] During a conference at Palm Beach, several men, including Kirk, Goldwater, and Buckley, decided to freeze out this radical anti-communist society from the conservative movement. This "society" founded by Robert Welch was named for a Baptist killed in China after World War II.

ANSWER: John Birch Society [accept JBS; prompt on "Birch Society"]

19. This person is the second woman to hold her position, following Gro Harlem Brundtland, and she leads the "Blue-Blue Cabinet" under King Harald V. For 10 points each:

[10] Name this current prime minister of Norway, who has led the Conservative Party there since 2004. She earlier gained public support by expelling Sunni terrorist Mullah Krekar from the country.

ANSWER: Erna Solberg

[10] As prime minister of Norway, Solberg leads this legislative body. This body was established in the 1814 Constitution of Norway and is a unicameral parliament made of 169 members.

ANSWER: Storting [or Stortinget; prompt on "Great Thing" or "Great Assembly"]

[10] In response to 2018 events in Gaza, Solberg reflected on an incident in this Norwegian city, in which Mossad assassin Sylvia Rafael mistakenly ordered men in a gray Volvo to fire at a Moroccan waiter instead of the leader of Black September.

ANSWER: Lillehammer [accept Lillehammer affair]

20. Jesse James Garrett coined the term for this technology, which commonly utilizes JSON ("jason") files. For 10 points each:

[10] Give this name for a series of technologies that allow webpages to perform background communication with servers. The jQuery library is commonly used for developing applications that use this technology.

ANSWER: AJAX [accept, BUT DO NOT REVEAL, Asynchronous Javascript and XML]

[10] The 'X' in AJAX refers to this standardized language used to represent data for web pages. It has been phased out in favor of JSON in many JavaScript applications.

ANSWER: XML [or Extensible Markup Language]

[10] This group, formed in response to a perceived shift to XML by the W3C, developed the standard HTTP request object used in AJAX. They also began the work on what would eventually become HTML5.

ANSWER: WHATWG ("what wig" or "what w-g" or "what"-wee-gee) [or the Web Hypertext Application Technology Working Group]