

Pre-ICT and Nationals Open/Minnesota Open 2019 (PIANO/MO): “What about bad subject matter? Or a bad title drop, even? That could kill a tournament pretty good.”

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Packet 6 Tossups

1. **An unusually early one of these objects features a Doric-style decoration over a row of alternating roses and triglyphs, and was made for Scipio Barbatus. They’re not thrones, but chaotic battles are depicted on objects of this kind named for Ludovisi and Portonaccio [por-toh-NAH-chyoh]. Regularly-spaced columns interrupt the two-register, frieze-like decoration of one of these things named for Junius Bassus. Pre-Renaissance Italian artists derived most of their knowledge of Classical sculpture from these objects, from which they frequently copied. Along with (*) catacomb paintings, these objects are our main source for early Christian iconography. Constantine had porphyry used to make objects of this kind for his mother and daughter, which depict grapevines on their lids. For 10 points, name these objects that, around A.D. 100, replaced urns as the primary way of burying the Roman dead.**

ANSWER: **sarcophagi** [or **sarcophagus**; prompt on coffins or caskets] <JR>

2. **New York Representative John Sweeney allegedly instructed protestors at an event in this city to “shut it down.” At that event in this city, a group led by Joseph Brendan Quinn repeatedly harassed local Democratic Party chairman Joe Geller. A Pulitzer Prize-winning photo taken in this city depicts Donato Dalrymple, one of two fishermen who found a five-year-old floating in an inner tube and turned him over to the Coast Guard. That Alan Diaz photograph shows a (*) SWAT officer pointing a submachine gun at that child, who was hiding in a closet in this city. A group of Republican officials, including Roger Stone, forced the cancellation of a recount in this city’s “Brooks Brothers Riot.” Elian Gonzalez was returned to his father in Cuba after living in—for 10 points—what city where election officials in Dade County were accused of trying to swing the 2000 Presidential Election?**

ANSWER: **Miami** <MB>

3. **In a play about the decline of socialism in this country, two men try to kidnap a Japanese factory manager. *Gagarin Way* is from this country, where a feminist playwright had her version of Medea use the accent of an Eastern European refugee. In 1947, this country’s Unity Theatre rebuked “elitist” festival director Rudolf Bing with a class-conscious staging of *The Lower Depths*. Soldiers emerge from a red pool table and Cammy dresses in uniforms from his regiment’s 300-year history in a play about this country’s forces in (*) Iraq, titled *Black Watch*. An author from this country created Lord Loam, whose progressive views on class are upended after a shipwreck leaves his butler in charge of the family. The world’s largest theater festival happens in this home of the man who wrote *The Admirable Crichton*. J.M. Barrie was from—for 10 points—what country where the Festival Fringe takes place in Edinburgh?**

ANSWER: **Scotland** [or **Alba**; prompt on United Kingdom, Great Britain, etc. but do not accept or prompt on “England”] (The 1947 event was the first Fringe.) <DS>

4. Variants of Murashige–Skoog plant cell culture media are named for their concentration of this compound. The negative selection step in lambda-Red recombineering kills bacteria sensitive to this compound because they harbor a SacB cassette. Floral dip transformations of *Arabidopsis* use a five percent solution of this compound, which is the substrate for invertase in *Saccharomyces*. Either cesium chloride or this compound cushions organelles in density gradient centrifugation. Rather than fermenting it, *Streptococcus mutans* converts this (*) 12-carbon, 11-oxygen compound into dextran to form dental caries. Cats lack the T1R2 receptor that binds to this molecule or its more potent analogues like aspartame. For 10 points, name this disaccharide composed of fructose and glucose, the main constituent of table sugar.

ANSWER: sucrose [prompt on table sugar] <AS>

5. David Graeber called a book about *these things* a “magnificent refutation... of the assumptions behind economic theory,” and paired that book about them with Marx in *Toward an Anthropological Theory of Value*. According to a book titled for *these things*, some people are “dividuals,” which has caused Westerners to misconstrue some behavior as “exploiting” women. The “gender” of these thing is analyzed in a 1988 book by Marilyn Strathern. Another book exemplifies the notion of a “power” or “spirit” in these things with the concepts of (*) *mana* and *hau*, and claims that these multivalent things can stand in for the whole of an “archaic society.” These things were called a “total prestation” in a book that claims that they are meant to elicit reciprocity. “Economies” based on these things include the Kula ring and the Potlatch. For 10 points, name these title goods of a book by Marcel Mauss.

ANSWER: gifts [accept *The Gender of the Gift*] <JR>

6. Susanne Lohmann studied the role of informational cascades in a series of protests in *this country*. This country started to invest in Vietnamese and Laotian coffee production after a “black frost” that wrecked the Brazilian coffee harvest precipitated this country’s 1977 coffee crisis. In the late 1980s, a *different country*’s embassy in Prague became home to hundreds of refugees *from this country*. A term translating to (*) “flight from the republic” was used to describe widespread emigration from this country in its early history. A construction workers’ strike against higher work quotas developed into this country’s Uprising of 1953. The slogan “We are the people” was at the center of the Monday demonstrations at the St. Nicholas Church in this country, as well as the 1989 *Alexanderplatz* demonstrations. For 10 points, name this nation whose Peaceful Revolution included the fall of the Berlin Wall.

ANSWER: East Germany [or the German Democratic Republic; or Deutsche Demokratische Republik; or GDR; or DDR; do not accept or prompt on “Germany,” “Federal Republic of Germany,” “FRG,” “BRD,” or “Bundesrepublik Deutschland”] <SK>

7. This artist drew the walls of Meknes in a sketchbook he took on a trip during which he was hosted by Abraham Benchimol. This artist painted a crowd of kids watching on green balconies above a sunlit courtyard where a dancer and several seated musicians are celebrating a Jewish wedding. In September 2018, a huge retrospective on this painter moved from Europe to New York’s Metropolitan Museum of Art. In one of his paintings, a man in the crowd outside a gate holds up a green (*) parasol behind a yellow-robed monarch on a grey horse. A trip abroad also inspired his work in which a black woman stands at right as three white courtesans sit on a rug around a hookah. For 10 points, name this painter of *The Sultan of Morocco and his Entourage* and *The Women of Algiers In Their Apartment*, who showed a bunch of women being killed around a red bed in *The Death of Sardanapalus*.

ANSWER: (Ferdinand Victor) Eugène Delacroix [duh-lah-KWAH] <MJ>

8. In a PhD thesis, Mark Weiser developed a common form of this technique still used today in which statements are diced, sliced, or chopped to build a program dependence graph. Andreas Zeller, author of a popular book titled for this task, pioneered an approach to it in which the input is recursively minimized. Tools like strace are used for this task in Linux systems. Static analyzer tools are often used to do it at first pass. Hexspeak keywords like (*) “deadbeef” and “badfeed” are common “magic words” which can be permuted or edited when performing this task. A tongue-in-cheek yet surprisingly popular method for doing this task involves talking to an inanimate rubber ducky. More practically, this task can be done by iterative insertion of `print` statements or by creating breakpoints. For 10 points, name this task of removing errors from a computer program. ANSWER: debugging [or similar answers like “fixing errors in code”] <AS>

9. A poem by this man describes an “open-mouthed, bare-headed” man who is “smiling as / a sick child might smile” and whose nostrils do not “quiver” at any odor. That sonnet by this author begins with the image of “A green hole where a river sings” and ends with the “two red holes” in the side of a soldier “sleeping” in the title “valley.” Another sonnet by this author compares waves to “the peace of the furrows / which alchemy prints on broad studious foreheads.” That poem by this author describes the things that include a “supreme (*) Clarion full of strange piercing sounds” and a “black velvet jacket of brilliant flies / which buzz around cruel smells.” This author called one of the title things the “Omega, violet ray of [his] eyes” in a poem beginning “A black, E white, I red, U green, O blue.” For 10 points, name this French poet who wrote “Vowels” and *The Drunken Boat*. ANSWER: (Jean Nicolas) Arthur Rimbaud [raam-BOH] <JR>

10. The Federal Rule of Civil Procedure of *this* number requires that pleadings alleging “fraud or mistake” do so with “particularity.” Among the 54 titles in the U.S. Code, laws about arbitration fall under the one of this number. In his SCOTUS confirmation hearing, Robert Bork likened the constitutional amendment of this number to an “ink blot” of unknowable meaning. In 2013, a legal entity with this number in its name began posting video streams of *en banc* [ahn bank] proceedings online. Republicans such as Jeff Flake have proposed breaking apart the (*) appellate circuit court of this number, the westernmost in the United States. In 1972, Patsy Mink of Hawaii and Birch Bayh of Indiana sponsored a law known by this number, whose corresponding constitutional amendment reserves “unenumerated” rights. For 10 points, give the number of a “Title” addressing sex discrimination in college education. ANSWER: nine [accept Rule 9(b); accept Title IX; accept Ninth Amendment; accept Ninth Circuit Court of Appeals] <MJ>

11. Short-lived deviations away from long-run trends taking place in *this* scenario were called “efflorescences” by Jack Goldstone. Esther Boserup’s model of increased intensity is sometimes used to argue against the possibility of this scenario occurring. Models of this scenario often include a production function featuring diminishing returns in some fixed factor. A 2000 paper by Oded Galor and David Weil explains the end of this scenario as the result of growing demand for human capital, which arises endogenously from population growth. (*) Unified growth theory attempts to explain this and more modern scenarios in the same framework. Its first theoretician argued that this scenario persists thanks to “positive checks” and “preventative checks.” For 10 points, name this scenario in which per capita income is limited by fertility, named for the author of *An Essay on the Principle of Population*. ANSWER: Malthusian trap [accept similar answers like Malthusian stagnation or Malthusian era or Malthusian regime or Malthusian growth; do not accept “poverty trap” or “liquidity trap” or “secular stagnation”] <SB>

12. During an election win celebration, the leader of a party with *this* name got into an argument with a citizen by claiming that *Voyager* was the best *Star Trek* series. The leader of another party with this name defeated an incumbent who told her “I know math is difficult” during a debate. In 2018, a party with this name boycotted wine from a subnational polity governed by a *different* party with this name. A party with this name was criticized for continuing the Site C hydroelectric project. Another party with this name is opposed by the newly formed (*) UCP. While running against the leader of a party with this name, Karen Wang sent out racist WeChat messages about that leader’s “Indian descent.” John Horgan leads one party with this name, while another is led by Rachel Notley in Alberta. For 10 points, name the Canadian federal party led by Jagmeet Singh, which is more left-wing than the Liberals.

ANSWER: NDP [or New Democratic Party, accept British Columbia New Democratic Party or Alberta New Democratic Party] <DS>

13. A landmark 2006 paper showed systems with this property can be designed *de novo* by distorting a polar Cartesian mesh and transforming it into an annular mesh. Systems with this property create Cherenkov cones at obtuse angles. Thirty years after Victor Veselago theorized that composites could have this property, David Smith experimentally proved it by interlacing a copper wire array with split ring resonators at microwave wavelengths. John Pendry showed that silicon carbide creates perfect (*) lenses with this attribute that focus all evanescent waves to a single point. This property causes energy to flow opposite the direction of propagation and only occurs where the local dielectric and permeability are both less than zero. For 10 points, name this property of metamaterials used as cloaking devices because Snell’s law is reversed in them.

ANSWER: negative index of refraction metamaterials [or NIMs; or materials that have a negative index of refraction; or left-handed materials; prompt on metamaterials until it is read by asking “what specific property do these metamaterials have?”] <AS>

14. A ruler of these people gained his name from supposedly crying blood while being kidnapped, and another won a prolonged siege when his enemies’ projectiles started to reverse in mid-air and kill their users. A brother of a ruler of these people spontaneously grew wings and flew to the “Sun Settlement” after another brother was sealed away for destroying too many mountains with a sling. One ruler of these people allegedly gained a fortune from places termed the “Outer Belt” and the “Fire Belt,” and another earned a name meaning (*) “overturner of the world” or “earthshaker” after stones supposedly came to life to help him repel Chanka invaders. The first ruler of these people supposedly emerged from a cave with four sisters and three other “Ayar Brothers” and founded a city where a sun god’s staff sank into the ground. Manco Capac was the first ruler of—for 10 point—what people, whose empire’s capital was Cuzco.

ANSWER: Incas [accept the Quechua; accept any term for rulers or founders of the Inca or of Tahuantinsuyu like Sapa Inca; accept answers that give people or rulers of Cuzco until mentioned] <JG>

15. In a poem by this author, Jesus, upon being asked why he is running so quickly, replies that he is trying to get away from cynics. In another of his poems, Moses erroneously rebukes a shepherd for offering to comb God’s hair and pick his lice. This poet wrote about a holy man who orders dessert for the creditors surrounding his deathbed and adds the bill to the amount he owes them. One of this poet’s collections contains the biography of a holy man who shared his hometown, Ibrāhīm ibn Adham, who gave up the crown of (*) Bactria to become an ascetic. That collection by this poet opens by claiming that “a tale of separations” is being told by a “complaining” reed, which you are instructed to “listen” to. This man has been “translated” by Coleman Barks and studied under Shams of Tabrīz. For 10 points, name this 13th-century Sufi poet who wrote the *Spiritual Couplets*.

ANSWER: Jalāl ad-Dīn Muḥammad Rūmī [or Mevlevī; accept Balkhī before “Bactria”] <DS>

16. A king with this name has a negative reputation deriving mainly from the biased account of Pero López de Ayala. When the lover of a king with this name was murdered, he supposedly had her exhumed corpse placed on a throne and made his court bow to that “queen,” Ines de Castro. A king of this name put down Beatriz Kimpa Vita’s Antonian movement and reunified the Kingdom of Kongo. After a ruler of this name abdicated in response to the “Night of the Broken (*) Bottles,” he led a troop that swore not to shave until they restored his daughter Maria II to power in the Liberal Wars. Edward the Black Prince intervened in the Castilian Civil War on behalf of a “Cruel” king of this name, who had earlier fought a “War of the Two” kings of this name with Aragon. A ruler of this name vowed “Independence or Death” in the Cry of Ipiranga. Both emperors of Brazil had—for 10 points—what name?

ANSWER: Pedro [accept Peter; accept more specific answers like Pedro I] <JG>

17. This composer has the singer repeatedly interrupt with triplet “la la la”s in a song about “Scaramouche and Pulcinella.” This composer played piano on four recordings of his songs with soprano Mary Garden in 1904. A early song cycle by this composer ends with two “watercolors,” which include the song “Green.” This composer of “Fantoches” set a poem beginning “It is languorous ecstasy” and later used its title for his piano piece “The Wind in the Plain.” This composer used three (*) Symbolist poems by Pierre Louÿs for his cycle *Chansons de Bilitis*. Like Gabriel Fauré, this composer set poems by Paul Verlaine in his *Ariettes oubliées* and *Fêtes galantes*, and he wrote a piano piece inspired by a Verlaine poem about “masques and bergamasques.” For 10 points, name this French composer of “Clair de Lune.”

ANSWER: (Achille-)Claude Debussy <JR>

18. Oddly, fluctuations in this quantity scale directly with the isothermal compressibility. Widom’s method calculates the change in free energy upon step increases in this quantity. In the microcanonical ensemble, the surface area of a microstate is h^3 , exponentiated by this quantity. Energy fluctuations go as one over the square root of this variable, which has variance equal to its own expectation value. Stirling’s approximation is applied on this quantity to derive the Sackur-Tetrode equation; that’s because (*) Gibbs introduced a factor of one over this quantity factorial after realizing that entropy must scale with it in indistinguishable systems. This quantity, which varies across permeable barriers in the grand canonical ensemble, is conjugate to chemical potential. For an ideal gas, it equals “ $P V$ over $k T$.” For 10 points, name this quantity, the total count of molecules in a system.

ANSWER: particle number [prompt on N until it is read; accept equivalents like “number of particles”] <AS>

19. *Description acceptable.* Mulla Saḍrā’s theory of transubstantial motion earned the nickname “**dressing after dressing**” for its implication that this idea applies at every instant. In a work titled *Blazing Brands of Certain Truth in* [this idea], Mīr Dāmād argued that this idea applies at a level of existence termed *dahr*. Much debate centered on whether this idea can be described as *dhāṭ* [THAH-tee] or “essential” or as *zamān* [ZEH-meh-nee]. Al-Kindī’s argument for this idea drew on John Philoponos’s denial of actual infinities. Denials of bodily resurrection, God’s knowledge of particulars, or of the common-sense version of this idea are condemned as apostasy in the *fatwā* ending *The Incoherence of the Philosophers*. Muslim thinkers often objected to notions of an (*) eternal universe as incompatible with this process occurring “in time.” For 10 points, name this process central to questions of Allāh’s agency, which the Bible describes as taking six days.

ANSWER: creation of the world (by God) [or ḥudūth al-‘ālam; accept obvious descriptions or synonyms; accept “changes in (Platonic) form or in substance” until “Mīr Dāmād” is read, but do **not** accept or prompt after; accept answers like “the age of the world,” “the world being finite in time,” or “that the world is not eternal until “eternal” is read; prompt on answers like God/Allāh existing with “What other process does that imply?”] <JG>

20. The protagonist of a story from this collection is mocked for coming up with “quall” as a rhyme for “hall” to continue a song about a woman who doesn’t wear drawers. That protagonist from this collection has to kill “six feet of snake” before hiding inside a black kiln. In a story from this collection, Silas is trapped in a burning house after shooting Sarah’s rapist, a “graphophone” salesman. In this collection’s first story, Bobo is tarred and feathered, and the title boy’s friends Lester and Buck are shot after skinny-dipping with him. A preacher under threat from the police decides to go through with a (*) Communist rally in this collection’s story “Fire and Cloud.” This collection begins with the autobiographical essay “The Ethics of Living Jim Crow” and the “long story” “Big Boy Leaves Home.” For 10 points, what first collection by Richard Wright was titled after a novel by Harriet Beecher Stowe?

ANSWER: Uncle Tom’s Children <JR>

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Packet 6 Bonuses

1. These structures were built by the dozen in the Loire valley under Fulk the Black of Anjou. For 10 points each:
[10] Name these defensive fortifications which often housed fortified towers called *donjons* or “keeps.”

ANSWER: **castles**

[10] Medieval castles often used this pair of fortifications, which consisted of a raised mound of earth with a keep on top, and a fortified courtyard surrounded by a ditch. Name *both* parts.

ANSWER: **motte** AND **bailey**

[10] Baileys were often surrounded by *this* kind of wall, which is made from stakes or tree trunks stuck in the ground.

ANSWER: **palisades** [or **paling**; prompt on **fences**] <JR>

2. This museum’s series of retrospectives on Latin American artists has included solo exhibitions of works by artists such as Diego Rivera and Manuel Álvarez Bravo. For 10 points each:

[10] Name this Manhattan museum home to paintings like *The Starry Night*, Matisse’s *The Dance*, and Picasso’s *Demaiselles d’Avignon*.

ANSWER: Museum of **Modern Art** [or **MoMA**]

[10] The MoMA’s series of retrospectives also included an exhibition featuring *this* Mexican muralist. He painted *The Epic of American Civilization* for Dartmouth College’s Baker Library.

ANSWER: José Clemente **Orozco**

[10] In 2018, the eighth artist featured in that series of MoMA retrospectives was this artist, who painted *Abaporu* for her husband Oswald de Andrade.

ANSWER: **Tarsila** do **Amaral** [accept either underlined portion] <WJ>

3. In the prologue, this character becomes a child bride, only for her husband to keel over two years later. For 10 points each:

[10] Name this woman who is framed for poisoning her mother-in-law’s soup in a play by Guān Hànpīng [gwan hahn-CHEENG]. This title character finally manages to get her name cleared after appearing to her father as a ghost.

ANSWER: **Dòu É** [DOH uh] [accept *The Injustice to Dou E* or *Gǎn tiān dòng dì Dòu É yuān*]

[10] *The Injustice to Dou E* was written during *this* Chinese dynasty. This dynasty saw development of *zájù*, the earliest major form of Chinese drama, thanks to avid patronage of theater by the ruling Mongols.

ANSWER: **Yúan** Dynasty

[10] The Yuan-era *zaju* *The Orphan of Zhào* centers on revenge, which also names a genre of English plays inspired by *this* earlier author of *Thyestes* and *Hercules furens*.

ANSWER: **Seneca** the Younger [or Lucius Annaeus **Seneca**] <JR>

4. After writing his *History of Chinese Philosophy*, Féng Yǒulán wrote a book titled for a “New” philosophy based on this concept. For 10 points each:

[10] Give the Chinese word for this basic concept in Neo-Confucianism, which can be translated as both “rationality” and “principle.” The Neo-Confucians were inspired by the use of this concept in Buddhist philosophy.

ANSWER: lǐ [lee]

[10] *Lǐ* was made central to Chinese philosophy by *this* 12th-century thinker, who wrote influential commentaries on the “Four Books,” a grouping he originated. His rationalism is often contrasted with the intuitionism of Wáng Yángmíng.

ANSWER: Zhū Xī [joo shee] [or Zhūzǐ [JOO tsu]; accept Yuánhuì [yoo-ehn HWAY] or Huì Àn [hway ahn]]

[10] Zhu Xi held that a person’s innate *li* is masked by impurities in *this* vital force, which is often translated as “energy flow” or “lifebreath.” This form of energy is “regulated” by traditional Chinese medicine and martial arts.

ANSWER: qì [chee] <JR>

5. This force appears to be radial in the rest frame of the Sun, but it isn’t in the frame of a particle in circular motion, which leads to the Poynting–Robertson effect, where dust spirals into the Sun. For 10 points each:

[10] Name this force that is proportional to the solar luminosity. It is caused by photon momentum and is responsible for the motion of solar sails.

ANSWER: solar radiation force [or word forms like radiative force; or solar radiation pressure]

[10] The Poynting–Robertson drag force depends on a coefficient derived from this scattering theory, which considers photons that are scattered by spherical particles of size the same order as the wavelength.

ANSWER: Lorenz–Mie scattering theory

[10] Radiative recoil on thermally anisotropic asteroids leads to the Yarkovsky effect, which is usually written as a differential equation showing the decrease in this variable over time. The *vis-viva* equation is usually written with the term “two over *r*, minus one over [this quantity]”, where this quantity can be positive or negative.

ANSWER: the semi-major axis of the orbit [or a] <AS>

6. A Filipino expert in this resource allegedly jumped out of a helicopter over Borneo, where his body was eaten by wild boars. For 10 points each:

[10] Name this resource at the center of a 1997 scandal, when it was discovered that Canadian company Bre-X had faked the discovery of vast amounts of this resource in Indonesia. This resource was produced intensively in Canada from 1896 to ‘99.

ANSWER: gold

[10] *This* Canadian province’s Teachers Pension Plan, which is one of the world’s largest investors, lost over \$100 million in the Bre-X scandal. The Sudbury Basin is the center of mining in this most populous Canadian province.

ANSWER: Ontario

[10] Settlement in Northern Ontario was driven by *this* 1909 gold rush, which was the world’s largest by total amount of gold discovered.

ANSWER: Porcupine gold rush [or Porcupine Lake gold rush] <DS>

7. An essay in *Writing and Difference* titled for “(This Man) and the Question of the Book” flips the title of one of this poet’s collections. For 10 points each:

[10] Name this Egyptian-born French poet, who is best known for *kabbalah*-inspired works like *The Book of Remembrances* and *The Book of Questions*.

ANSWER: Edmond **Jabès** [zha-BESS]

[10] Many of Jabès’s poems were inspired by the horrors of *this* death camp. Theodor Adorno claimed that “there can be no poetry after” this place.

ANSWER: **Auschwitz** [OWSH-vitz] [accept **Auschwitz** I or **Auschwitz** II or **Auschwitz**-Birkenau]

[10] This German-language poet also proved Adorno wrong by using Auschwitz and other concentration camps as the inspiration for a 1945 poem that describes the “black milk of daybreak” and compares the “ashen hair” of Shulamith to the “golden hair” of Margareta.

ANSWER: Paul **Celan** [or Paul **Antschel**] (The poem is “Deathfugue.”) <JM>

8. For years, Jeremiah Wright pastored the Trinity United Church of Christ in this city. For 10 points each:

[10] Name this Midwestern city where the original Parliament of World Religions was held as part of the 1893 World Columbian Exposition.

ANSWER: **Chicago**

[10] Wright’s comments were inspired and defended by *this* theologian, who wrote books like *A Black Theology of Liberation* and *The Cross and the Lynching Tree*, which decried the essential anti-Christianity of the white church’s history of racial oppression.

ANSWER: James H(al) **Cone**

[10] James Cone’s work on black liberation theology predates *this* Peruvian priest’s book *A Theology of Liberation*, which articulated the “preferential option for the poor” and launched the liberation theology movement in Latin America.

ANSWER: Gustavo **Gutiérrez** (Merino) <JM>

9. David Baltimore, who discovered the key enzyme found in these viruses, chaired the November 2018 summit where Hè Jiànkúì [huh jyehn-kway] announced that he had CRISPRed [“crispered”] two baby girls to be immune to one of these viruses. For 10 points each:

[10] Name these viruses which have RNA genomes that are reverse transcribed into DNA. In Baltimore’s scheme, they are in Group VI [six] and include HIV.

ANSWER: **retroviruses**

[10] This virus in Baltimore’s Group VII also uses reverse transcriptase to replicate its partly double stranded genome. Infants are vaccinated against this virus immediately at birth, since it probably infects between 5 and 30% of the world’s population.

ANSWER: **hepatitis B** [or **HepB**; or **HBV**; prompt on partial answer]

[10] Baltimore began his career studying the replication mechanism for polio and this other model group V [five] virus. Its G glycoprotein is used to pseudotype lentiviruses and was fused to G·F·P in the first studies of ER-Golgi trafficking.

ANSWER: **vesicular stomatitis** virus [or **VSV**; or **vesicular stomatitis Indiana virus**; or **VSIV**; or **Indiana vesiculovirus**] <AS>

10. This theory’s developers Jeff Greenberg, Tom Pyszczynski [pish-CHIN-skee], and Sheldon Solomon tested it by priming municipal judges about “mortality salience” before bond hearings. For 10 points each:

[10] Name this theory. It proposes that firm cultural worldviews and self-esteem arise as “anxiety buffering” systems in reaction to awareness of one’s mortality.

ANSWER: **terror management** theory [prompt on IMT]

[10] Though awareness of death correlates to activity in the frontal brain, terror spurs activity in *this* limbic system structure, named from the Greek for “almond.” Each hemisphere of the brain contains one of these structures sitting on the hippocampus.

ANSWER: **amygdalae**

[10] A 2015 book is titled for this man’s adage that death is the “worm at the core” of human culture. Hugo Munsterberg was brought to Harvard by this man, whose functionalism tried to move beyond mere introspection.

ANSWER: William **James** <MJ>

11. Until 2018, when a media frenzy developed surrounding a bunch of overdoses, this country was the world “capital” of safe synthetic cannabinoid use due to a unique government-regulated legal market. For 10 points each:

[10] Name this Oceanian country home to fauna like the Kiwi bird.

ANSWER: **New Zealand** [or **Aotearoa**]

[10] New Zealand will likely move to legalize actual cannabis under this current Labour Party prime minister. She once called capitalism a “blatant failure” and supports the compulsory teaching of the Māori language in schools.

ANSWER: Jacinda (Kate Laurell) **Ardern**

[10] Many New Zealand politicians reacted with outrage when American billionaire Peter Thiel [“TEAL”] bought a mansion in *this* town, a winter sports tourism mecca along Lake Wakatipu in South Island.

ANSWER: **Queenstown** <JM>

12. At the end of a film in this language, a woman dying of tuberculosis throws herself into her brother’s arms and yells “Brother, I want to live! Brother, I will live!”—a cry that echoes throughout the surrounding hills as they swirl around her. For 10 points each:

[10] Name this language of movies like *The Cloud-Capped Star* and *The Music Room*.

ANSWER: **Bengali** [or **Bangla**]

[10] Star Bengali directors of the Parallel Cinema era included Ritwik Ghatak, Mrinal Sen, and *this* director of *Aparajito* and *The Big City*. He worked closely with cinematographer Subrata Mitra.

ANSWER: Satyajit **Ray**

[10] The neorealist aesthetic of Ray’s Apu Trilogy and Bimal Roy’s *Do Bigha Zamin* were influenced by *this* Vittorio de Sica film about Antonio’s desperate search for the title stolen vehicle.

ANSWER: **Bicycle Thieves** [or **Ladri di biciclette**; or *The Bicycle Thief*] <SK>

13. These people, who warred with the Blemmyes, are often associated with the archeological Ballana Culture, and their court at Faras was the center of the “Violet Style” of Christian fresco painting. For 10 points each:

[10] Name this people, whose namesake kingdom was absorbed into the kingdom of Makuria to its south. With Makuria and the Alwa kingdom further south, these people ruled a region subject to a peace treaty called the *baqt*.

ANSWER: the **Noba**(tae) People [or the **Nobatian** Kingdom; prompt on but **DO NOT OTHERWISE REVEAL Nubians**]

[10] The Noba people lived in *this* region south of the Nile’s Second Cataract. This region, famous for its people’s archery skills, was ruled by the Kingdom of Kush, which also founded the 25th Dynasty of Egypt under King Piye.

ANSWER: **Nubians**

[10] The Noba people are also associated with a shift to written Nubian from the written language named for *this* iron-working center. This city became the de facto capital of Kush after the Egyptian sack of Napata.

ANSWER: **Meroë** [accept **Medewi** or **Bagrawiyah**] <JG>

14. The last step of microbial cannabinoid synthesis involves heating the yeast to catalyze one of these reactions, the nonenzymatic conversion of T·H·C·A to psychoactive T·H·C. For 10 points each:

[10] Name this type of reaction that occurs spontaneously when you heat an ester or carboxylic acid that has a carbonyl group exactly two carbons away. It is driven by entropy.

ANSWER: **decarboxylation** [or **removal of carbon dioxide**; or **removal of C·O₂**; or obvious descriptive equivalents for a molecule **losing C·O₂**]

[10] The usual mechanism for a beta-keto-acid decarboxylation is a pericyclic group transfer that's the reverse of this reaction in hydrocarbons. In this reaction, ethylene is added to an alkene through a 1,5-hydride shift.

ANSWER: Alder **ene** reaction [do not accept or prompt on "Diels-Alder" reaction]

[10] As Alexander Borodin could tell you, the decarboxylation of butanoates is not pericyclic. Instead, it is catalyzed by a radical generated through the homolysis of this halogen, which is a liquid at room temperature.

ANSWER: **bromine** [or **Br₂**] <AS>

15. In a review for *The New Republic*, Elizabeth Bishop blasted a Rebecca Patterson book that attempted to demonstrate this poet's homosexuality. For 10 points each:

[10] Name this poet, who possibly expressed latent sexual yearnings in the poem "Wild Nights." Lillian Faderman analyzed homoerotic themes in this author's letters, as well as in a poem in which the speaker laments "But I was not a 'Diver'" after noting how the subject's "breast is fit for pearls."

ANSWER: Emily (Elizabeth) **Dickinson**

[10] Dickinson was a fan of *this* author's novel *Kavanagh*, which is often cited for including the first lesbian relationship in American literature. This man's other long works include the epic poem *Evangeline*.

ANSWER: Henry Wadsworth **Longfellow**

[10] The oft-alleged subject of Dickinson's affections is *this* writer, to whom Dickinson mailed more poems than any other person. This woman married Dickinson's brother Austin, which seems to have made Emily very unhappy.

ANSWER: Susan **Gilbert** [or **Susan** Huntington Gilbert **Dickinson**] <DS>

16. This piece's soloist is told to sing in the "tempo of the emotions," while the three men sing according to the beat. For 10 points each:

[10] Name this piece written over a ground bass in A minor. It was published in a 1638 collection of pieces "guerrieri et amorosi."

ANSWER: "**Lamento della ninfa**"

[10] The "Lamento della ninfa" was published along with pieces like *Il Combattimento di Tancredi e Clorinda* by *this* Italian composer of the 17th century.

ANSWER: Claudio **Monteverdi**

[10] In a 1978 article, Ellen Rosand discussed "Lamento della ninfa" and other grounds that descend through *this* interval as an "emblem of lament." This interval is the inversion of a perfect fifth.

ANSWER: perfect **fourth** <JR>

17. The number of elements in a finite example of these objects must be an integer power of a prime number. For 10 points each:

[10] Name these algebraic structures in which you can carry out operations analogous to addition/subtraction and multiplication/division. A commutative ring can be made into one of these objects by taking the set of all fractions.

ANSWER: **fields** [or **field** of fractions; or finite **fields**]

[10] Given a field and some metric on it, *this* other metric space can be constructed by adjoining the limits of all Cauchy sequences. The reals and p -adics can be constructed as one of *these* spaces for the rational numbers.

ANSWER: **completion** [or **complete** metric space]

[10] This mathematician generalized a theorem of Hermann Minkowski to prove that two quadratic forms are equivalent over a given number field if and only if they're equivalent over its completions. This man used that theorem to exemplify his "local-global" principle.

ANSWER: Helmut **Hasse** [accept **Hasse–Minkowski** Theorem] <JR>

18. After making a fortune from a candy company, this man settled in Belmont, Massachusetts, where he oversaw the magazine *American Opinion*. For 10 points each:

[10] Name this wealthy businessman. In 1958, this man founded a group whose tens of thousands of members began accusing basically everyone, including President Dwight Eisenhower, of being a Communist agent.

ANSWER: Robert (Henry Winborne) **Welch** (Jr.)

[10] Before founding the still-extant John Birch Society, Welch was a major donor to *this* man, who was eventually censured by his fellow Senators for baseless anti-Communist smears. This Wisconsin Republican's chief counsel, Roy Cohn, later represented Donald Trump.

ANSWER: Joseph (Raymond) "Joe" **McCarthy** Jr.

[10] This magazine editor and former Welch ally penned the scathing 1962 editorial "The Question of Robert Welch" as part of what's often described as an effort to "excommunicate" the John Birch Society from conservatism.

ANSWER: William F(rank) **Buckley**, Jr. <MJ>

19. This character dreams of being chased by an Alsatian after his father rapes him at the age of five. For 10 points,

[10] Name this heroin-addicted protagonist of an autobiographical series by Edward St. Aubyn. He discovers that his childhood home has been donated to a New Age society in the series's fourth entry, *Mother's Milk*.

ANSWER: **Patrick Melrose** [accept either name]

[10] In real life, St. Aubyn managed to retain ownership of his mother's estate, where *this* author of *The Swimming-Pool Library* and close friend of St. Aubyn wrote his Booker-winning novel *The Line of Beauty*.

ANSWER: Alan (James) **Hollinghurst**

[10] The protagonists of *The Line of Beauty* and the Melrose series both attended this university, as did St. Aubyn and Hollinghurst. Its press publishes a series of "World's Classics."

ANSWER: **Oxford** University [accept **OUP** or **Oxford World's Classics**] <DS>

20. Adherents of this religion venerate the *pañcha-parameshṭhi*, including *siddhas* and *arihants*, in the Navakāra Mantra, this religion's most important prayer. For 10 points each:

[10] Name this Indian religion whose adherents also praise the most recent 24 tīrthāṅkaras in the Logassa Sūtra.

ANSWER: **Jainism**

[10] Those prayers are among the many sutras Jains recite during *this* ritual of asking for forgiveness, which Jains may repeat as often as twice a day or as little as once a year, during Paryushan. Jains say “micchāmi dukkaḍam” to ask forgiveness during this ritual.

ANSWER: ***pratikramana***

[10] The word *namo* in the Navakāra Mantra refers to *this* action, which Jains perform while reciting the Khamā-samaṇa Sutra. In each *rak'ah* of Islamic prayer, two forms of this action are performed after reciting two *suras*.

ANSWER: **bowing** [or **prostration**] <SK>