Written by Stefan Calin, Justin Chen, Sathya Gnanakumar, William Graf, Pratyush Jaishanker, Elliot Lee, Anuraag Kaashyap, Vishal Kanigicherla, Vance Kreider, Joshua Lian, Prithvi Nathan, Sohom Paul, Karthik Prasad, William Wang, Ryan Xu, and Kevin Zhang Head Edited by Will Alston, with Ankit Aggarwal, Grant Li, James Malouf, Jack Mehr, Dan Ni, Ryan Rosenberg, and Michael Yue.

## Packet 15

## Tossups

1. In this city, protesters chained themselves to trees to protest the construction of a building designed by John Russell Pope. The shape of a Yoruba crown inspired David Adjaye's 2016 design for a bronze-colored museum in this city. Thomas U. Walter designed a part of a building in this city that was planned by William Thornton and is located at the western point of a diamond outlined in the McMillan Plan. The Leinster House inspired James (*) Hoban's design for a residence in this city that was built with the help of architect Benjamin Latrobe. Planned by Pierre L'Enfant, for 10 points, name this city home to buildings like the Jefferson Memorial and the White House.
ANSWER: Washington, District of Columbia [accept either underlined portion; accept Washington, $\underline{\text { D.C.] }<\text { Lian, }}$ Fine Arts - Other>
2. A character created by this author is beaten by Farmer Troutham after the crows eat his corn and is tricked into selling medicine for the quack doctor Vilbert. In another work by this author, a character passes out from drinking porridge mixed with rum and is dismayed to find five guineas in his pocket when he wakes up. That man swears to stop drinking for twenty-one years after making a deal with the sailor (*) Newsom, who is later revealed to be the father of Elizabeth-Jane. Lucetta runs off with the corn merchant Donald Farfrae in a novel by this author that opens with Michael Henchard selling his wife and children. For 10 points, name this author of Jude the Obscure and The Mayor of Casterbridge.
ANSWER: Thomas Hardy <Gnanakumar, Literature - British>
3. An envoy sent by this ruler described a bronze tree inhabited by mechanical singing birds in the court of the emperor John Tzimiskes. This ruler is the younger of the two rulers described by the chronicler Widukind of Corvey's Deeds of the Saxons. He sent Liutprand of Cremona to arrange a marriage between his son and the Byzantine princess Theophanu. This ruler patronized such projects as the construction of (*) Hildesheim Abbey, sparking a namesake cultural renaissance. This son of Henry the Fowler relieved was granted his highest title by John XII in 962, seven years after he and Conrad the Red defeated the Magyars at the Battle of Lechfeld. For 10 points, name this first German Holy Roman Emperor.
ANSWER: Otto I [or Otto the Great; prompt on Otto or Ottonian renaissance] <Kaashyap, History - European>
4. The CETO project uses wave power technology in order to achieve this process. The MVC form of this process uses a flow compressor to move liquid across a thermal gradient in a vacuum chamber. One form of this process uses an activated carbon filter which prevents damage to the TFC membrane and was invented by Loeb and Sourirajan. Methods for performing this process include multi-stage flash (*) distillation and electrodialysis. A widely used form of this process applies pressure through a semipermeable membrane and can be impeded by the formation of biofilms. That process is reverse osmosis. Brine is a hazardous byproduct of, for 10 points, what process that makes ocean water potable by separating salt from it?
ANSWER: water desalination [or water purification; accept reverse osmosis before mention; accept equivalents such as removing salt from water; prompt on "distillation" with "what is the goal of this form of distillation?"] <Jaishanker, Science - Chemistry>
5. "Micro-entities" attempting to acquire these things receive a $75 \%$ fee reduction thanks to the 2013 LeahySmith Act. The case Diamond $v$. Chakrabarty asserted that these things can be acquired for any "composition of matter", living or nonliving. In February 2020, Huawei sued Verizon, claiming that it failed to pay the necessary fees for using 12 of these things. Applications for these (*) documents most often fail for not meeting the criteria of "non-obviousness" or the existence of "prior art" uncovered by an examiner. Companies which acquire these documents to provide grounds for frivolous lawsuits are called their namesake "trolls." In the U.S. they typically expire after 20 years. For 10 points, what documents grant holders exclusive rights to use or license an invention?
ANSWER: patents [accept patent trolls] <Alston, Modern World - Misc. Academic>
6. This empire's treaty with the city of Ebla allowed the construction of trading posts called karums. The "winged genie" motif features in many palace reliefs from this empire, including one depicting a lion hunt found in the British Museum. This empire collapsed after it was defeated by a coalition of Scythians and Medes assembled by a rival king named Nabopolassar at the Battle of Harran. It built statues of (*) winged bulls with human heads called lamassu. Excavation of a vast library compiled by a ruler of this empire produced the first copies of the Epic of Gilgamesh seen by modern scholars. Jerusalem was besieged by a ruler of this named Sennacherib. For 10 points, name this empire that was ruled by Ashurbanipal from Nineveh.
ANSWER: Neo-Assyrian Empire [or mat Aš-šur; or $\square \square \square$ ] <Kaashyap, History - Ancient>
7. The first of Mozart's Haydn Quartets has this nickname. Count Moritz von Fries is the dedicatee of an Fmajor violin sonata with this nickname. An E pedal point represents bagpipes in the Allegro pastorale last movement of a concerto with this title. A B-flat-major symphony with this nickname was written shortly after its composer's marriage to Clara Wieck. Two sforzando C-sharps are repeated by the violas in the Largo movement of that concerto, which depicts a sleeping (*) goat-herd and his barking dog. Repeated trills from the soloist represent chirping birds in the first movement of a violin concerto with this title. For 10 points, give this name of the E-major first concerto in Vivaldi's The Four Seasons.
ANSWER: spring [accept Frïhlingssonate; accept "La Primavera"; prompt on The Four Seasons after "E pedal point"] <Prasad, Fine Arts - Auditory>
8. The tavern keeper John Hughson was hanged in this city after being accused of inciting a likely-fictitious slave revolt called the Conspiracy of $\mathbf{1 7 4 1}$. Events in this city were criticized by a political cartoon depicting crocodiles dressed as bishops emerging from the "American River Ganges". A parade in this city by Ulster Protestants celebrating the Battle of the Boyne was attacked by Irish Catholics, leading to the $\mathbf{1 8 7 1}$ Orange Riots. This city's (*) Colored Orphan Asylum was burned after the implementation of a 300-dollar commutation fee sparked the 1863 Draft Riots. Thomas Nast depicted a political machine in this city as a tiger, and its leader with a bag of money for a head. For 10 points, name this location of Tammany Hall.
ANSWER: New York City [or NYC] <Malouf, History - American>
9. A poem by this author warns "idleness has destroyed both kings and blessed cities before." The god Bacchus discovers the abandoned Ariadne at the end of this author's "little epic." Another of his poems demands "a thousand kisses, then a hundred, then another thousand" from his lover, whom he encourages to "let us live and let us love." That poem by this author was addressed to (*) Clodia Pulchra, who inspired a poem that begins "I hate and I love." This poet laments travelling "over many nations and many seas" for the funeral of his brother, whom he mourns with the phrase "ave atque vale." For 10 points, name this Roman poet who wrote several poems to Lesbia.
ANSWER: Gaius Valerius Catullus <Anuraag Kaashyap, Literature - World>
10. Removal of this organ reduces platelet destruction when treating ITP. Enlargement of this organ occurs in Felty's syndrome which can be assessed by percussing Traube's space. The presence of acute pain in the left shoulder can be attributed to damage to this organ in Kehr's sign. Castell's sign can be assessed to determine its abnormal enlargement caused by (*) Banti's syndrome. This organ's rupture can also be due to mononucleosis, and it contains the monocyte rich cords of Billroth. This organ's two major tissue types are separated by the marginal zone. This organ metabolizes hemoglobin into its constituent amino acids. For 10 points, name this lymphoid organ whose white pulp synthesizes antibodies and whose red pulp acts as filtration for red blood cells.

ANSWER: spleen <Kanigicherla, Science - Biology>
11. These people had to inform officials whenever they used their "right to strike," which did not apply to doctors and midwives. People who joined a class of these people called "guardians of the banner" included the sailor Jan Joosten ("yahn YOO-sten") and his captain William Adams. After accompanying the missionary Alessandro Valignano ("vah-leen-YAH-noh") the African slave Yasuke ("yahs-kay") became one of these people. The Book of $\left(^{*}\right.$ ) Five Rings was written by a legendary example of these people who carved his weapons from wood. Most of them were unemployed by the late 19th century, during which they lost the right to behead commoners after the Boshin War. For 10 points, the Meiji reforms disenfranchised what feudal military aristocracy of Japan?
ANSWER: samurai [or buke; accept bushi before "bushido"; accept ronin; prompt on retainers of any specific person] <Wang, History - World>
12. A manuscript describing how grandfather Koljaiczech hid under four skirts to avoid the police is owned by a character with this condition. A violent character with this condition delivers letters for Princess Teodora and later poisons her lover Don Riccardo. After joining Bebra's troupe and later becoming a jazz musician at the (*) Onion Cellar, another character with this condition is convicted for the murder of Sister Dorothea. Piccoline has this condition in a Pär Lagerkvist novel. For 10 points, name this diminutive condition which affects Oskar Matzerath in The Tin Drum.
ANSWER: dwarfism [accept equivalents like being a dwarf; prompt on being short or being small; prompt on does not grow or synonyms; do not accept or prompt on "being an infant"] <Kevin Zhang, Literature - European>
13. A series of minimalistic grid paintings were produced by the Canadian-born artist Agnes Martin in this state. A house with a colorful Rainbow Room was built for the wealthy patron Mabel Dodge in this state, where another artist painted a wooden ladder floating towards the moon against a turquoise sky. The pale cliffs of "The White Place" and the ashy hills of "The Black Place" were painted by an artist in this state from her studio in $\left(^{*}\right)$ Abiquiú ("ah-bee-koo-YOO"). That artist collected dried bones while staying at an art colony in this state's town of Taos, where she made paintings of cow skulls in the desert. For 10 points, name this state whose Georgia O'Keeffe Museum is located in Santa Fe.
ANSWER: New Mexico <Calin, Fine Arts - Visual>
14. This man is not Joseph Smith, but he was the first to be given control over the seer stones Urim and Thummim. This man and his sister reprimand their brother for marrying a Cushite woman, so his sister is afflicted with white, leprous skin. On the day of this man's consecration, an offering of "strange" incense resulted in divine fire annihilating his sons $\mathbf{( * )}^{*}$ ) Nadab and Abihu. According to the Book of Numbers, this ancestor of the kohanim died on Mount Hor, where he was stripped of his clothes, which were then transferred to his son and successor, Eleazer. This man aroused God's anger by creating the golden calf. For 10 points, name this first High Priest of Israel and brother of Moses.
ANSWER: Aaron [or Aharon] <Prasad, Beliefs - Religion>
15. The Littrow configuration can be used to find the optimal blaze angle for this phenomenon. In one regime, the intensity of the patterns due to this phenomenon are proportional to peak intensity times a sincsquared function. By considering a superposition of spherical waves, this phenomenon can be modeled with Kirchhoff's integral formula, which can approximate this phenomenon in (*) near-field and far-field regimes named for Fresnel and Fraunhofer. This phenomenon creates a feature with an angle equal to 1.22 times wavelength over diameter, called an Airy disk. Patterns produced by this phenomenon were observed in Young's double-slit experiment. For 10 points, name this phenomenon in which light bends around an object.
ANSWER: diffraction [accept near-field diffraction or far-field diffraction; prompt on interference or light interference or wave interference] <Calin, Science - Physics>
16. Several planned "virtual" sites during this event were replaced by "satellite" sites which allowed geographically distant individuals to participate in "preference groups." Users on /pol/ ("pole") tried to "clog the lines" to disrupt this event. Michael Bennet was one of several individuals to not receive any SDEs in this event, as he did not meet the minimum threshold of $(*) 15 \%$. An independent review regarding errors during this event was called for by Troy Price after his resignation. Insecurities in a Shadow Inc. application deployed during this event caused its results to not be known for several days. Pete Buttigieg ("BOO-tuh-judge") gave an early victory speech after the 2020 edition of, for 10 points, what first U.S. primary contest?
ANSWER: 2020 Iowa Democratic Caucus [prompt on Iowa primary; prompt on caucus or primary] <Jaishanker, Modern World - CE>
17. A character named after this man is shot by his brother after winning a game of Three-Card Monte in Suzan-Lori Parks' play Topdog/Underdog. Quotes from historical sources comprise several chapters of a 2017 novel in which Hans Vollman watches this man return to a crypt to embrace his dead son. A poem about this man describes a "song of the bleeding throat" that is sung by a solitary thrush. The speaker of that poem about this man watches "a (*) coffin that passes through lanes and streets" and hails this man as the "western orb sailing the heaven." A poem that opens "The ship has weather'd every rack, the prize we sought is won" laments that this man has "fallen cold and dead". For 10 points, name this President, the subject of Walt Whitman's poem "O Captain! My Captain".
ANSWER: Abraham Lincoln <Li, Literature - American> (The second clue is from Lincoln in the Bardo.)
18. Two answers required. The Maori personify these two domains as two deities who were forced to end their tight embrace by Tāne, named Rangi and Papa. Egyptian mythology reverses the typical genders of the deities of these two domains and says the two were separated by Ra after he found out that Khonsu had granted five extra days. The Greeks wrote that their deities of these two domains raised Cottus, Briareus and Gyges, three monsters with $50\left(^{(*)}\right.$ heads and 100 arms. Osiris uses a ladder to traverse these two domains, which are ruled by his parents, Geb and Nut. According to Hesiod, the deities of these two domains were parents of the Hecatoncheires, Cyclopes, and Titans. A husband-and-wife pair often represent, for 10 points, what two domains personified by Ouranos and Gaia?

ANSWER: sky AND earth [accept heavens or air for "sky"; accept terra or land or similar, roughly synonymous equivalents for the Earth] <Alston, Belief - Mythology>
19. This operation names a quadratic minimization technique invented by Hestenes and Steifel for solving systems of linear equations, named for its "conjugate" form. Overfitting commonly results when using a "boosting" technique named for this operation which performs it repeatedly to find updates that minimize the loss function; that is an example of $\left(^{*}\right)$ optimization methods called this operation's namesake "descent." Taking the divergence of this operation on a function gives that function's Laplacian. This operation gives all of a function's partial derivatives at a given point in space. A nabla, or "inverted delta" symbol represents, for 10 points, what mathematical function whose name also refers to a gradual change in color? ANSWER: gradient [accept gradient descent or gradient boosting machine; accept conjugate gradient method; prompt on del] <Kaashyap, Science - Math>
20. An essay by Susan Okin whose title pairs this concept with "gender" and "family" states that theories about it have been based on faulty male perceptions of the family. A philosopher who wrote a book titled Liberalism and the Limits of this concept offers a popular, freely available course on it at Harvard. Michael Sandel has critiqued a book on this concept which claims that hypothetical persons would adopt a (*) maximin strategy as part of the "difference principle." That book titled for this concept devised a thought experiment where people structuring society have no knowledge of their birth situation, called the "original position." For 10 points, name this concept which John Rawls wrote a "Theory of" and roughly equated with fairness.
ANSWER: justice <Mehr, Thought - Philosophy>

## Bonuses

1. This politician took steam baths to dehydrate himself before delivering a speech in which he read the entirety of each state's election laws For 10 points each:
[10] Name this long-serving Senator from South Carolina whose 24 hour filibuster was unable to prevent the passage of the Civil Rights Act of 1957.
ANSWER: James Strom Thurmond, Sr .
[10] Thurmond carried four states in the election of 1948 with this segregationist party that split from the Democrats after Truman ordered the integration of the military.
ANSWER: States Rights Democratic Party [or Dixiecrats]
[10] In 1956, Strom Thurmond and Georgia Senator Richard Russell wrote this document, in protest of the Supreme Court's decision in Brown v. Board. It claimed the Court committed a "clear abuse of judicial power" in the ruling, and was signed by almost all of the delegates from Southern states.
ANSWER: the Southern Manifesto [or the Declaration of Constitutional Principles] <Jaishanker, History American>
2. In a Hurrian story, Kumarbi does this action to his father, Anu, to create new gods. For 10 points each: [10] Identify this action. In a similar tale from Greek mythology, Gaia asks her son Cronus to perform this action on his father Uranus with a sickle, resulting in Uranus's downfall and the birth of new deities.
ANSWER: castration [accept word forms; accept equivalents referring to the mutilation and/or cutting off of a god's genitals or testicles or balls]
[10] This Norse goddess, who was said to have collected the castrated body parts of heroes, was made to laugh when Loki nearly castrated himself through his antics. She selected her husband Njord by looking at his feet.
ANSWER: Skadi
[10] This goddess drove her male companion, Attis, into a frenzy after learning of his infidelity, causing him to castrate himself. Consequently, her priests in Rome - the galli - also underwent castration.
ANSWER: Cybele [prompt on Matar] <Kaashyap, Belief - Mythology>
3. A humorous concerto for this instrument and plucked strings is featured in the soundtrack of the film The Grand Budapest Hotel. For 10 points each:
[10] Name this often-used Renaissance- and Baroque-era instrument similar to the Middle Eastern oud. Bach's suites for this instrument are given the BWV numbers 995 through 1000, and it was played by John Dowland. ANSWER: lutes
[10] The Concerto for Lute and Plucked Strings was actually based on a C-major trio sonata by this composer. This Baroque composer is more well-known for works such as his Contest between Harmony and Invention.
ANSWER: Antonio Vivaldi
[10] Vivaldi also wrote three unusual concertos for the flautino, an instrument generally said to be the sopranino variety of this other instrument. Educators using the Orff approach often teach with these woodwind instruments. ANSWER: recorders <Lee, Fine Arts - Auditory>
4. While building a Power Station, a character working in one of these places steals some wire to make a spoon. For 10 points each:
[10] Name this type of place. A man living in one of these places builds a wall in freezing temperatures with his fellow zeks in gang 104.

## ANSWER: Gulags

[10] This author of One Day in the Life of Ivan Denisovich also wrote The Gulag Archipelago. ANSWER: Alexander Solzhenitsyn
[10] Solzhenitsyn's writings were first circulated through this form of underground self-publishing that was practiced by dissidents in Communist nations to circumvent press restrictions.
ANSWER: samizdat <Zhang, Literature - European>
5. A national park named for these fossils has parts of the Chinle and Moenkopi geological formation within its boundaries. For 10 points each:
[10] Name this fossilized material which results when volcanic ash or a similar material prevents decomposition, thus transforming arboreal tissue into stone.
ANSWER: petrified wood [accept petrified forest or petrified trees; prompt on wood]
[10] The northern tip of Petrified Forest National Park includes this desert, which is a badlands near the Four Corners and Vermillion Cliffs National Monument. It's well known for the diverse shades of its rocks.
ANSWER: Painted Desert
[10] A permit from this tribal nation is required for most backroads travel through the Painted Desert. About 350,000 people comprise this Native American nation, which has the largest reservation in the country and is located primarily in Arizona.
ANSWER: Navajo Nation [or Navajo People] <Nathan, Modern World - Geography>
6. This NRTI drug is often sold with Lamivudine as Combivir or alone as Retrovir. For 10 points each:
[10] Name this "nuke" drug which acts by competing with its nucleotide counterpart and is used to promote DNA chain termination.
ANSWER: Z्Zidovudine [or ZDV; accept azidothymidine or AZT; prompt on answers mentioning antiretrovirals] [10] Zidovudine is commonly used as a antiretroviral medication to treat this disease caused by HIV.
ANSWER: HIV/AIDS [accept HIV/acquired immunodeficiency syndrome]
[10] AZT is used as an inhibitor of this protein which is coded along with integrase by the pol gene. Retroviruses like HIV use this enzyme to create double-stranded DNA from RNA.
ANSWER: reverse transcriptase <Kanigicherla, Science - Biology>
7. Answer the following about the field of sociolinguistics in the United States. For 10 points each:
[10] Sociolinguistics was pioneered by this man, who introduced ideas such as "speech styles" and the Golden Age principle and wrote his masters thesis on dialect changes in Martha's Vineyard.
ANSWER: William Labov
[10] Labov asked department store employees in this city about the "fourth floor" to observe differences in speech based on social status. Robert Moses' work in this city was criticized in a book by Jane Jacobs.
ANSWER: New York City
[10] Labov studied this language which is characterized by the dropping of the copula "be" in the present tense and usage of negative concord. This stigmatised dialect is often colloquially referred to as ebonics.
ANSWER: African-American Vernacular English [accept AAVE] <Xu, Thought - Social Science>
8. Slabs consisting of examples of these things found in a metal are known as dross. For 10 points each:
[10] Identify these things which are segregated in the molten phase, then removed, in the technique of zone refining. ANSWER: crystal impurities [do NOT accept or prompt on "crystals"]
[10] Zone refining is commonly used to purify crystals of this element into its float-zone form which are then cut into wafers. This element and germanium are commonly used materials for semiconductors.
ANSWER: silicon [ $\mathrm{or} \underline{\mathrm{Si} \text { ] }] ~}$
[10] Impurities are typically removed from germanium before it is manufactured into one of these devices.
According to Moore's law, the number of these devices that can fit on a silicon wafer doubles every 18 months.
ANSWER: transistors [accept MOSFETs or field effect transistors] <Calin, Science - Physics>
9. This man's Stations of the Cross series consists of fourteen paintings entirely in black and white. For 10 points each:
[10] Name this abstract expressionist painter of Vir Heroicus Sublimis whose works consist of vertical lines called "zips" against a monochromatic background.

## ANSWER: Barnett Newman

[10] Newman designed the sculpture Broken Obelisk for a chapel named after this painter. This Color Field artist was commissioned to decorate the Seagram Building with his paintings of large rectangles.

## ANSWER: Mark Rothko

[10] Newman also painted a series entitled Who's Afraid of Red, Yellow, and [this color]. An "international" shade of this color was created by Yves Klein, who used this color extensively in his paintings.
ANSWER: blue <Li, Fine Arts - Visual>
10. A policeman accuses this character of hitting a cab driver as she enters the recording studio and she refuses to sing without a bottle of Coke. For 10 points each:
[10] Name this character who fires the hot-tempered Levee from her band after he refuses to stop improvising. ANSWER: Ma Rainey [accept Ma Rainey's Black Bottom]
[10] Ma Rainey's Black Bottom is part of this ten-play series, whose other plays are all set in the title city. Other plays in this series include The Piano Lesson and King Hedley II.
ANSWER: Pittsburgh Cycle [prompt on "Pittsburgh"]
[10] This author of the Pittsburgh Cycle also wrote about Troy Maxson refusing to let his son Cory play football in his play Fences.
ANSWER: August Wilson < Xu, Literature - American>
11. This concept is often compared to the Brain in a Vat thought experiment as a form of systematic doubt. For 10 points each:
[10] Name this being that creates a complete illusion of the external world to a man who uses the example of a ball of wax to delineate clear and distinct ideas.
ANSWER: evil demon [or evil genius or evil deceiver]
[10] The evil demon is posited in this philosophical treatise that expands on the cogito statement of its author's earlier Discourse on Method.
ANSWER: Meditations on First Philosophy
[10] This 17th century philosopher wrote Meditations on First Philosophy and is associated with philosophy of mind-body dualism.
ANSWER: René Descartes [Renatus Cartesius] <Lee, Thought - Philosophy>
12. This author wrote an ethnographic work describing how a certain group worships Mercury and arranges their calendar so that nights come first. For ten points each:
[10] Name this author who described the migration of the Helvetii in the first book of his Commentaries ANSWER: Gaius Julius Caesar [prompt on Caesar]
[10] Caesar wrote the Commentarii on his campaigns against the Averni of this region. The Commentaries open by describing how this region is divided into three parts
ANSWER: Gaul [or Gallia]
[10] Book VII of the Commentarii de Bello Gallico relates the siege of this city where Caesar built a second set of walls to protect his army from Vercingetorix's reinforcements.
ANSWER: Alesia <Kaashyap, History - Ancient>
13. One theorem named for this mathematician states that closed and bounded continuous functions are sequentially compact. For 10 points each:
[10] Name this mathematician, who also names a test for uniform and absolute convergence in infinite series.
ANSWER: Karl Theodor Wilhelm Weierstrass [accept Bolzano-Weierstrass theorem; accept Weierstrass M-test] [10] Open covers of a closed and bounded function have subcovers with this property according to the Heine-Borel theorem, building on the Bolzano-Weierstrass theorem. Sets with this property have an integer cardinality.
ANSWER: finite
[10] Proving the Heine-Borel theorem also relies on the fact that when these sequences are bounded, they converge to a supremum or infimum. These sequences are non-decreasing or non-increasing.
ANSWER: monotone sequence [or monotonic sequence] <Jaishanker, Science - Math>
14. This regime was overthrown by Vietnam after this regime killed Vietnamese citizens in the Ba Chúc massacre. For ten points each:
[10] Name this regime led by Pol Pot. It launched an imitation of the Great Leap Forward called the Maha Lout Ploh.

 Chomsky]
[10] Leaders within the Khmer Rouge leadership were known by this title. Pol Pot and Ieng Sary were known as [this title] "Number One" and "Number Three".
ANSWER: brother
[10] The Vietnamese invasion of Cambodia also allowed this communist movement in a neighboring country to establish a namesake "People's Democratic Republic" in 1975.
ANSWER: Pathet Lao [or Lao Nation] <Lee, History - World>
15. After engineering the execution of Anne Boleyn, the protagonist himself is later beheaded at the end of this author's 2020 novel The Mirror and the Light. For 10 points each:
[10] Name this British author who chronicled Thomas Cromwell's rise to power in her 2009 novel Wolf Hall. ANSWER: Hilary Mantel
[10] Wolf Hall and its sequel Bring Up the Bodies both won this literary award which recognizes the best Englishlanguage novel of the year. Hilary Mantel is one of the few authors to win this award twice.
ANSWER: Man Booker Prize [or Booker Prize for Fiction or Booker-McConnell Prize]
[10] In Wolf Hall, Thomas Cromwell is accused of heresy by this rival of his, who presented his vision of a harmonious society in his book Utopia.
ANSWER: Sir Thomas More <Li, Literature - British>
16. Pieces in this art form include The Drunken Concubine, and revolutionary works of this kind were created during the Cultural Revolution. For 10 points each:
[10] Name this art form, often contrasted with its Western counterpart, that includes traditional ensembles accompanying onstage singers in intricate face paint.
ANSWER: Chinese opera [accept $\boldsymbol{x i q u}$; accept Peking opera, anti-prompt variants like Cantonese Opera; prompt on just opera]
[10] This traditional instrument with two strings often accompanies Chinese operas. Solo repertoire for this instrument includes the short piece "Horse Race," in which the performer imitates a horse neighing.
ANSWER: $\underline{\boldsymbol{e r h u}}$
[10] Most characters in Chinese operas appear with face paint of this color, often with additional red accents to indicate bravery.
ANSWER: white <Lian, Fine Arts - Other>
17. You are a student who needs to clean their NMR tube. For 10 points each: answer the following about what you would do.
[10] You grab the handy chromic acid, but your lab partner tells you not to use it because this property of chromium reduces relaxation times and screws up NMR peaks.
ANSWER: paramagnetism [or paramagnetic]
[10] This oxidizing agent which doesn't contaminate glassware with heavy ions can be used instead. The reaction of sulfuric acid and hydrogen peroxide in this agent is similar to the violence of a feeding frenzy of its eponymous fish. ANSWER: piranha solution [accept piranha clean or piranha etch]
[10] When the NMR tube is cleaned, it is rinsed with distilled water and this compound before being left to dry. This simplest ketone is a common solvent used to clean glassware.
ANSWER: acetone [or propanone] <Calin, Science - Chemistry>
18. The Anglo-Saxon Chronicle claims that this force was led by five sons of Ragnar Lodbrok, including Ivar the Boneless. For ten points each:
[10] Name this force that invaded Britain in 865. A leader of this force named Guthrum signed the Treaty of Wedmore after being defeated at the Battle of Eddington.
ANSWER: Great Heathen Army [or Great Danish Army; accept but DO NOT REVEAL Great Viking Army]
[10] The Great Heathen Army was made up of these Norse seafarers. These people had previously burned Lindisfarne Abbey in the first of their many raids on Western Europe
ANSWER: Vikings
[10] The victor at the Battle of Eddington was this king who employed the chronicler Asser and issued a law code called the Doom Book.
ANSWER: Alfred the Great [or Alfred I] <Kaashyap, History - European>
19. These people are roused by the sight of Mackandal transforming into an insect to escape being burned at the stake. For 10 points each:
[10] Name these people who are incited to violence by Bouckman. After being employed as one of these people, Ti Noel learns to shapeshift but is subsequently rebuffed by a gaggle of geese that he tries to befriend.
ANSWER: Haitian slaves [accept equivalents]
[10] Ti Noel appears in The Kingdom of This World, whose author Alejo Carpentier is from this country. A famous poem written by an author from this country is "Guantanamera".
ANSWER: Cuba
[10] "Guantanamera" was written by this Cuban poet, who also wrote the poem "I Cultivate a White Rose", a poem found in his Versos Sencillos.
ANSWER: Jose Marti <Chen, Literature - World>
20. For 10 points each, answer the following about naskh, the Islamic practice of abrogating revelations which contradict one another:
[10] One example of naskh is the favoring of later revelations which more strongly condemn the use of this substance, which is avoided entirely by orthodox Muslims. It's called khumur in the context of sharia.
ANSWER: alcohol [or booze; accept specific alcohols, i.e. wine]
[10] Among the Qur'anic verses which justify naskh is one from this second surah which states "Allah doth blot out or confirm what He pleaseth." This surah also contains the "Throne Verse."
ANSWER: The Cow [or al-Bagarah]
[10] Naskh is a form of this practice of interpreting and commenting upon scripture, particularly for legal purposes. You may give either the common Arabic or the common English term.
ANSWER: tafsir OR exegesis [prompt on hermeneutics] <Prasad, Belief - Religion>

