Harvard Fall Tournament XIV<br>Edited by Jon Suh with assistance from Jordan Brownstein, Ricky Li, and Michael Yue Questions by Jon Suh, Michael Yue, Ricky Li, Kelvin Li, Justin Duffy, Thomas Gioia, Chris Gilmer-Hill, Laurence Li, Jonchee Kao, Peter Laskin, Olivia Murton, Mazin Omer, Alice Sayphraraj, and Kevin Huang<br>Special thanks to Jordan Brownstein, Stephen Eltinge, Kelvin Li, and Olivia Murton

Packet 2

Tossups

1. A character created by this author feeds a baby poisonous red ink because she cannot afford school. A daughter asks if grown-ups can be burnt by fire in a novel by this author, whose protagonist shoots at his wife after she shears a banana tree. Ikem criticizes the dictator Sam in a novel by this author featuring the (*) stapler-wielding "Samsonite" Ossai. The protagonist wrestles Amalinze the Cat in a novel by this author in which an exploding gun kills Ezeudu's son. In that novel by this author, the protagonist executes Ikemefuna and is exiled for seven years. For 10 points, name this Nigerian author of Anthills of the Savannah and Things Fall Apart.
ANSWER: Chinua Achebe (Writer's note: The first story is "Vengeful Creditor.")
$<$ R. Li, World Literature>
2. After a plebiscite was held in this regime, the Wawelberg Group blew up seven bridges to start an uprising. This regime sentenced the Dutch communist Marinus van der Lubbe to death. The Dawes plan aimed to help this regime. The People's Observer was banned after a failed coup against this regime symbolized by a "blood flag." Civil liberties were curtailed after the (*) burning of this regime's parliament building. This regime passed a "Fire Decree" and experienced the Beer Hall Putsch. This regime experienced rampant hyperinflation under Paul von Hindenburg and jailed Adolf Hitler. For 10 points, name this interwar democratic German regime.
ANSWER: Weimar Republic [prompt on Germany before "German" is read]
$<$ R. Li, European History>
3. A casual conversation with Alfred North Whitehead inspired a book by this man that was defended in a 1970 paper by his student Kenneth MacCorquodal. That work by this man discussed verbal modifiers called "autoclitics" and the concepts of "tacts" and "mands." This man's book Verbal Behavior was criticized in a 1959 review by Noam Chomsky. This man wrote a novel in which T. E. (*) Frazier guides a group of visitors around the title utopian community. This creator of "Project Pigeon" and the "air crib" wrote Walden Two. For 10 points, name this American psychologist who created a namesake "box" to study operant conditioning.
ANSWER: B. F. Skinner [or Burrhus Frederic Skinner]
<Suh, Psychology>
4. In statistical mechanics, this constant to the 3-Nth power is frequently featured in the denominator of quantities as a normalization. This quantity is the numerator of the Compton wavelength. This quantity scales all eigenvalues of spin operators since it has units of angular momentum. This quantity divided by 2 pi gives a related quantity often denoted with a (*) bar. Dividing this quantity by momentum yields wavelength in the de Broglie ["de BROY"] relation. This constant is multiplied by frequency to give the energy of a photon. For 10 points, give this constant named for the German physicist who discovered quanta.
ANSWER: Planck's constant [prompt on $\underline{h}$ or $\underline{h}$-bar before mention; accept reduced Planck's constant]
<Yue, Physics>
5. A hip-hop group titled for these creatures released its album 3001: A Laced Odyssey in 2016. A Pilou Asbæk ["PILL-oo AS-beck"] character uses French black tar to create these creatures, one of which is torched by Chloe, in the movie Overlord. Rules for surviving these creatures include "Beware of bathrooms" and "Cardio." "Wonder weapons" against these creatures include the Monkey Bomb and the Ray Gun. These creatures overwhelm a wildling camp at (*) Hardhome and are led by the Night King. The "Nazi" type of these creatures name a Call of Duty game mode. These creatures are called "wights" in Game of Thrones. For 10 points, name these undead creatures who feast on brains.
ANSWER: zombies [accept wights or the undead before mention; accept white walkers; accept descriptive equivalents like resurrected or reanimated people] (Writer's note: In order of appearance, the clues refer to Flatbush Zombies, Overlord, Zombieland, Call of Duty, and Game of Thrones.)
$<$ R. Li, Trash $>$
6. This molecule undergoes rapid fluxional inversions due to a low tunneling barrier. The liquid form of this substance solvates electrons in a reaction which reduces benzene. This substance forms a complex with silver in a reagent used to detect alpha-hydroxy ketones and aldehydes. Because it will form chloramines ["CHLOR-ah-meens"], products containing this substance should not be mixed with (*) bleach. This compound is produced with an iron catalyst and high pressures in a process that artificially hydrogenates nitrogen. That process is the Haber-Bosch process. For 10 points, name this simplest amine with formula $\mathrm{NH}_{3}$.
ANSWER: ammonia [accept $\mathbf{N H}_{\mathbf{3}}$ before mention; do NOT accept or prompt on "ammonium"]
$<$ K. Li, Chemistry>
7. In a work by this author, a black-robed Auditor observes as memories of being "back in the field" are invoked by a bodiless Mouth. A character created by this author fantasizes about "wander[ing] in the Pyrenees" and angrily rejects a turnip offered by his companion. Willie recites newspaper headlines to his wife Winnie in a play by this author, who also created the dustbin-dwelling (*) Nagg and Nell. This author of Happy Days and Endgame wrote a play featuring Pozzo and Lucky in which Vladimir and Estragon fruitlessly engage in the title action. For 10 points, name this Irish absurdist author of Waiting for Godot.
ANSWER: Samuel Beckett [or Samuel Barclay Beckett]
$<$ R. Li, European Literature>
8. This place, the setting of the 1792 Buttonwood Agreement, experienced a 1920 bombing that killed 38 people, which is believed to have been committed by supporters of Luigi Galleani. Irving Fisher ruined his reputation by making misguided statements shortly before an event in this place that involved widespread (*) margin buying. The name of this place may have come from a structure built under Peter Stuyvesant ["STY-vuh-sent"] to protect against Native American incursions. A five-day event at this specific place in October 1929 started the Great Depression. For 10 points, identify this financial hub of Manhattan that titles a namesake Journal.

ANSWER: Wall Street [accept The Wall Street Journal; prompt on New York City or New Amsterdam; prompt on Manhattan until mention; anti-prompt [ask for less specific] on the New York Stock Exchange]
<Suh, American History>
9. An artist from this movement often included canoers in his depictions of Hampton Court Bridge. An artist from this movement painted their mother reading the newspaper "Le Figaro." Alfred Sisley was a member of this movement, as was an artist inspired by Japanese woodblocks to depict a mother in a striped dress washing a child's feet. An artist from this movement depicted his future wife with a (*) black dog among friends eating lunch, while another painted a hazy "sunrise" over his hometown of Le Havre. That artist from this movement depicted haystacks and water-lilies. For 10 points, name this French art movement of Claude Monet. ANSWER: impressionism (Writer's note: Other impressionists clued are Mary Cassatt and Pierre-Auguste Renoir.) $<$ R. Li, Painting $>$
10. Factories in this country include the Maison Cailler ["may-ZAWn kai-YAY"] in its municipality of Broc. The Brusio spiral viaduct is located along the Albula and Bernina railways in this country, which are both run by the Rhaetian Railway. Each January, the "World Economic Forum" takes place in a city in this country. A lake in this country has a name literally meaning "lake of four forested settlements," but is more commonly known as Lake (*) Lucerne. The Glacier Express runs across this country from St. Moritz to Zermatt, a resort town close to the Matterhorn. For 10 points, name this European country whose largest city is Zurich, famed for its Alps. ANSWER: Switzerland [or the Swiss Confederation]
$<$ Kao/Suh, Geography>
11. This man pretends to be a shipwrecked Dutchman to travel to "Nangasac," Japan, after telling the philosophers Gassendi and Descartes ["day-CART"] that their ideas are old-fashioned. He observes the two opposing factions of the High- and Low-Heels, and becomes banished from a country after urinating in its capital to (*) put out a fire. This character lives with people who call him a "Yahoo" in Houyhnhmm ["WHEE-num"]. During a war over how best to crack an egg, this man helps a country whose inhabitants are about one-twelfth his size. For 10 points, name this character who meets tiny people in Lilliput, the title character of a Jonathan Swift novel about his "travels."
ANSWER: Lemuel Gulliver [accept either underlined answer; accept Gulliver's Travels]
<Kao/Yue, British Literature>
12. Adults who develop this disease are most commonly infected by S. pneumoniae. It's not listeria, but a fetus can acquire this disease when their mother ingests unpasteurized soft cheese. A structure affected by this disease is the subarachnoid space, which is found between the dura and pia mater. Bacteria can leak into that space in places where the (*) blood-brain barrier is weakened. Patients with this disease often have reduced glucose levels in their cerebrospinal fluid. It's not encephalitis, but this disease classically causes neck stiffness. For 10 points, identify this infectious disease whose name comes from the characteristic inflammation of the meninges. ANSWER: bacterial meningitis
$<$ K. Li, Biology>
13. The Minyades ["mih-NYE-uh-dees"] were turned into bats after they committed this action instead of honoring Dionysus. After being raped and muted by Tereus, Philomela ["fill-uh-MEE-lah"] took this action to communicate with her sister Procne. This action was done every day and undone every night by (*) Penelope to keep her suitors at bay. The three Fates perform this action to control human lives. A woman skilled in performing this action depicted the infidelities of the gods during a contest and was subsequently punished by her opponent, the goddess Athena. For 10 points, name this art mastered by Arachne.
ANSWER: weaving [accept word forms; prompt on less specific answers like making cloth or making a tapestry] <Duffy, Mythology>
14. This city is home to a T. C. Howard-designed geodesic dome sheathed in Plexiglass. Charles Henry Niehaus sculpted an equestrian statue named for this city's Apotheosis. The Climatron and Jewel Box are greenhouses in this city. Gyo Obata co-founded the architectural firm HOK in this city. A terra-cotta office building in this city was designed by Dankmar Adler and a man known as the (*) "Father of Skyscrapers." The brewer Ellis Wainwright lends his name to a skyscraper in this city partially designed by Louis Sullivan. A stainless steel monument in this city is shaped like a weighted catenary. For 10 points, name this city home to Eero Saarinen's Gateway Arch that's located in Missouri.
ANSWER: St. Louis [prompt on The Gateway City before "Gateway"]
<R. Li, Architecture>
15. According to some accounts, this woman gave birth to a daughter named Anaq who either had two heads or 20 fingers that each had two nails. The Alphabet of Ben-Sira popularized the story that this woman's husband had a first wife named Lilith. This woman's descendant was prophesied to bruise the head of an animal described to be the most (*) crafty of them all. This woman gave birth to Seth after her eldest son committed mankind's first murder by killing Abel. This woman was created from a rib taken out of her husband, with whom she ate from the Tree of the Knowledge of Good and Evil. For 10 points, name this wife of Adam.
ANSWER: Eve [or Hawa]
<Suh, Religion>
16. This composer's second symphony features a "Spirit of Delight" theme, while his first opens with an A-flat "nobilmente" one. This composer of In the South wrote a violin concerto featuring a "windflower" theme, and another one of his concertos opens with an E-minor solo recitative and features a 9/8-time melody. This composer wrote a (*) cello concerto notably recorded by Jacqueline du Pré as well as an orchestral work dedicated to "friends depicted within" like Augustus Jaeger. The first of a set of five marches by this composer provided the melody to "Land of Hope and Glory." For 10 points, name this English composer of the Enigma Variations and Pomp and Circumstance.
ANSWER: Edward Elgar
<Yue, Music>
17. Rabban Bar Sauma is sometimes called the "reverse" of this man. This man accompanied the "Blue Princess" Kököchin on a journey to Persia. This man and his brother delivered a letter to Pope Gregory X that requested oil from the Holy Sepulchre. This man was captured at the Battle of Curzola, and Rustichello da Pisa wrote a book about this man based on (*) stories told by him in a Genoese prison; that book is Il Milione. Some have doubted the veracity of this man's stories based on his omission of things like foot binding and tea. For 10 points, name this Italian merchant who traveled along the Silk Road to China.
ANSWER: Marco Polo (Writer's note: Rabban Bar Sauma traveled from China to Europe and wrote from the reverse perspective of Polo.)
<Suh, European History>
18. Description acceptable. Clair Patterson's measurement of this quantity has remained relatively unchanged since his work with a certain type of nesosilicate. That mineral and others like monazite are used in modern determinations of this value. The first scientist to calculate a value for this quantity was over 90 percent off the currently accepted value because he neglected convection and nuclear processes. That scientist was Lord (*) Kelvin. Meteorites provide a more accurate measurement of this quantity because they are relatively unchanged from when the solar system formed. For 10 points, name this quantity which has been determined to be 4.5 billion years based on lead-lead dating.
ANSWER: the age of the Earth
$<$ K. Li, Earth Science>
19. A boy created by this author gets lost in a forest after seeing a rabbit and is reminded of a "painted clown" by some bloody soldiers. The protagonist of a story by this author tearfully compares sand to "diamonds, rubies, emeralds" after escaping some gray-eyed marksmen. This author defines love as "a temporary insanity curable by marriage" in The (*) Devil's Dictionary, and he wrote of a deaf-mute boy's discovery of his dead mother in "Chickamauga." This author wrote a story in which Peyton Farquhar hallucinates his escape from being hanged from the title structure. For 10 points, name this American author of "An Occurrence at Owl Creek Bridge."
ANSWER: Ambrose Bierce [or Ambrose Gwinnett Bierce]
$<$ R. Li, American Literature>
20. Alizarin, a dye of this color extracted from the madder plant, was used in the uniforms of the New Model Army. The name "Brazil" came from a tree that produced a dye of this color. Until the early 1800 s , Mexico held a monopoly on a dye of this color made from the cochineal ["КОТСН-ih-NEEL"] insect. A group of volunteers known by this color participated in the (*) Expedition of the Thousand. Uniforms of this color taken from a slaughterhouse in Argentina were worn by the troops of Giuseppe Garibaldi. For 10 points, British soldiers in the Revolutionary War were called "coats" of what color?
ANSWER: red [accept crimson]
<Suh, World History>
21. According to the fundamental theorem of algebra, the set of these numbers is algebraically closed. If a dynamical system has these numbers as eigenvalues, the trajectories will be spirals or ellipses. When visualized on Argand diagrams, the argument of an element in this set is the angle it makes with the horizontal axis. A holomorphic function is (*) differentiable over this set at all points. Euler's formula express these numbers as " $r$ times $e$ to the $i$ theta." If the discriminant of a quadratic is negative, the roots will be one of these numbers. For 10 points, name these numbers which can have a real and an imaginary part.
ANSWER: complex numbers [anti-prompt [ask for less specific] on imaginary numbers; do NOT accept or prompt on "real numbers," as the eigenvalue clue does not apply to real numbers] <K. Li, Math>

## Bonuses

1. Post-translational modification of proteins, which involves covalent addition of various functional groups, extends the versatility of the standard amino acids. For 10 points each:
[10m] Name these compounds which are added to surface proteins in red blood cells to produce the ABO blood types. The process of adding these compounds to proteins is called glycosylation.
ANSWER: sugars [accept carbohydrates; accept saccharides with or without the prefixes mono-, $\underline{\text { di- }} \underline{\underline{\text { oligo-}} \text {, or }}$ poly-]
[10h] O-linked glycosylation attaches a sugar to this amino acid which, with threonine, names a class of protein kinases. With histidine and aspartate, this amino acid is found in a catalytic triad in a namesake class of proteases. ANSWER: serine [prompt on ser; prompt on S]
[10e] O-GlcNAc ["OH-GLIK-NAK"] transferase is found in the mitochondria and this part of the cell. This part of the cell contains all organelles except the nucleus.
ANSWER: cytoplasm
$<$ K. Li, Biology>
2. This god will duel and kill his foe during Ragnarok, but then will take nine steps before dying himself. For 10 points each:
[10e] Name this Norse god of thunder who wields the hammer Mjolnir ["MYAWL-neer"]. ANSWER: Thor
[10m] At Ragnarok, Thor will kill and be killed by this creature, an offspring of Angrboda and Loki sometimes depicted with its tail in its mouth. Thor almost caught this creature on a fishing trip, but his companion cut it loose. ANSWER: Midgard Serpent [or Jormungandr; prompt on World Serpent]
[10h] Thor went on that fishing trip with this giant who had an unusually hard skull. The Aesir desired this giant's mile-wide cauldron so they could brew beer in it.
ANSWER: Hymir
<Suh, Mythology>
3. The most famous poem by one poet with this surname repeatedly notes that the speaker has a "stiffened gown" and ends with the line, "Christ! What are patterns for?" For 10 points each,
[10h] Give this last name also shared by a poet who declares "I myself am hell" in the poem "Skunk Hour." That poet wrote that the Robert Gould Shaw Memorial "sticks like a fishbone / in the city's throat" in another poem.
ANSWER: Lowell [accept Amy or Robert Lowell]
[10e] The Lowell family lived in this state, the home of many Fireside poets like Henry Wadsworth Longfellow. Longfellow's poem "Paul Revere's Ride" is set in this state.
ANSWER: Massachusetts
[10m] In A Fable for Critics, Fireside poet James Russell Lowell attacked this poet as being "three fifths...genius and two fifths sheer fudge." This poet wrote of the "tintinnabulation" of the title objects in his poem "The Bells."
ANSWER: Edgar Allan Poe
<Yue, American Literature>
4. For 10 points each, answer these questions about the history of Christianity in Asia.
[10e] Cardinal Jaime ["нYe-may"] Sin ["seen"] was influential in starting the People Power Revolution in this country. A major setting of the revolution was the EDSA, a ring road around Manila.
ANSWER: the Philippines
[10m] This Japanese shogunate, named after the victor at the Battle of Sekigahara, crushed the Shimabara Rebellion which was led by peasant Catholics. It also forced suspected kirishitan to step on fumi-e, or images of Jesus or Mary. ANSWER: Tokugawa Shogunate [or Tokugawa Bakufu; or Edo Bakufu]
[10h] Hudson Taylor served as a missionary to this country in the late 19th century, whose largest Protestant denomination is called the "Three-Self Church."
ANSWER: China
<Suh, World History>
5. This place is considered an example of a "heterotopia" in one work, which argues that it maximizes the docility of its constituents. For 10 points each:
[10h] Name this place that exemplifies an "unequal gaze" according to a book that opens with a description of the last days of Robert-François Damiens.
ANSWER: the Panopticon [prompt on a prison]
[10m] This French philosopher criticized Jeremy Bentham's Panopticon as a "mechanism of power" in his book Discipline and Punish. He discussed the "medical gaze" in his book The Birth of the Clinic.
ANSWER: Michel Foucault
[10e] Alexis de Tocqueville's visit to America to examine its prison system inspired the publication of his book titled [this system of government] in America. In that work, he discussed the danger of a "tyranny of the majority." ANSWER: a democracy
<Yue, Philosophy>
6. Feminist interpretations of this painter's works began with the publication of Linda Nochlin's 1971 essay "Why Have There Been No Great Women Artists?" For 10 points each:
[10h] Name this female Baroque painter whose powerful depictions of strong women include Jael and Sisera and two versions of Judith Slaying Holofernes. Her depiction of Holofernes supposedly resembles Agostino Tassi, her rapist.
ANSWER: Artemisia Gentileschi ["gen-tee-LESS-kee"]
[10e] Gentileschi's Self-Portrait as the Allegory of Painting was painted during her stay in this country. Gentileschi's father Orazio and Anthony van Dyck served as court painters for this country's monarch Charles I in London.
ANSWER: England [accept United Kingdom or Great Britain; accept UK]
[10m] Gentileschi painted Allegory of Inclination as part of a series of works meant to memorialize this artist who created the tomb of Pope Julius II.
ANSWER: Michelangelo di Lodovico Buonarroti Simoni [accept either underlined part]
<Suh, Painting>
7. In one linear regression model, the population parameters minimize a loss function named for this operation. For 10 points each:
[ 10 m ] Identify this operation. The sample estimators in that aforementioned model are calculated by minimizing the sum of this operation on residuals.
ANSWER: square [accept least-squares regression]
[10h] Along with Slutsky's theorem, this result can be used to show that the least-squares estimator is consistent. The "weak" form of this result asserts that the sample mean converges in probability to the population mean.
ANSWER: law of large numbers [or LLN]
[10e] The central limit theorem implies that sample mean minus population mean, scaled by the square root of sample size, converges to one of these distributions. The 68-95-99.7 rule applies to this distribution.
ANSWER: normal distribution [or Gaussian distribution; prompt on bell curve]
$<$ R. Li, Math $>$
8. The second movement of Debussy's La Mer is titled for waves performing this activity. For 10 points each: [10h] Name this activity that also titles a notable suite for piano duet by Georges Bizet. Bartok's Concerto for Orchestra features one of these activities "of Pairs."
ANSWER: playing games [accept playing or other equivalents; accept "Jeux de vagues" or Jeux d'enfants or Jeux] [10e] Like Debussy, this French composer also depicted the play of water in his piano piece Jeux d'eau ["juh DOH"], or Water Games. He is best known for composing Boléro.
ANSWER: Maurice Ravel
[10m] Debussy also wrote a work in this genre titled Jeux ["juh"], or Games, for Sergei Diaghilev ["dee-AH-gill-ev"] and a certain group with a title containing the word "Russes." Vaslav Nijinsky was a notable performer of works in this genre.
ANSWER: ballet [accept Ballets Russes]
<Yue, Music>
9. For 10 points each, answer the following about a certain precious metal in pre-Columbian South America. [10h] One of the leaders of this confederation ritually covered himself in gold dust before diving into Lake Guatavita. This confederation, which was led by a Zipa and a Zaque ["ZAH-kay"], held territory in the highlands of modern-day Colombia.

## ANSWER: Muisca Confederation [or Chibcha]

[10m] This Incan leader who feuded with his brother Huascar was forced to fill a room with gold, and two other rooms with silver. Despite successfully doing so, he was nonetheless killed by Francisco Pizzaro.
ANSWER: Atahualpa [or Atabalica or Atabalipa; or Francisco Atahualpa]
[10e] Tales of gold in South America inspired legends of this fictitious "City of Gold." This fictional place was sought by Europeans like Walter Raleigh and Gonzalo de Quesada.
ANSWER: EI Dorado [accept Manoa; do NOT accept or prompt on "Cibola"]
<CGH, World History>
10. At this location, a character reports seeing a ghost, and another character opens the window to let the ghost in. For 10 points each:
[10m] Name this estate owned by Heathcliff. This estate is adjacent to Thrushcross Grange, where Mr. Lockwood stays in the frame story of the novel in which it appears.
ANSWER: Wuthering Heights
[10e] Wuthering Heights was written by Emily, a member of this family. Another member of this family, Charlotte, wrote Jane Eyre.
ANSWER: Brontë
[10h] Heathcliff marries Isabella to take revenge on Catherine for marrying this character, Isabella's brother. This character's daughter Cathy eventually marries Heathcliff's son, giving Heathcliff ownership of Thrushcross Grange. ANSWER: Edgar Linton [prompt on Linton]
<Kao, British Literature>
11. The PUREX method, which is based on liquid-liquid extraction, is named after two important elements in this non-weaponry industry. For 10 points each:
[10m] Name this industry which uses PUREX to recover unused fuel from its waste. This industry produces low amounts of greenhouse gases but is considered nonrenewable.
ANSWER: nuclear power [accept nuclear energy or equivalents]
[10e] The organic solvent in the PUREX process contains the tributyl ["tri-BUTE-il"] derivative of this polyatomic ion. Three instances of this ion are found in ATP.
ANSWER: phosphate
[10h] The aqueous solvent in the PUREX process is a seven-molar solution of this oxidizing mineral acid. This strong acid is commercially produced by the Ostwald process.
ANSWER: nitric acid
$<$ K. Li, Chemistry>
12. Alexander Ypsilantis was a leader of the Filiki Eteria, a secret organization that agitated for the independence of Greece from this empire. For 10 points each:
[10e] Name this empire, which took most of Greece and conquered Constantinople in 1453.
ANSWER: Ottoman Empire
[10h] The key engagement of the Greek War of Independence was this naval battle in which allied forces from Britain, Russia, and France decisively defeated an Ottoman armada.
ANSWER: Battle of Navarino
[ 10 m ] The first king of newly independent Greece was a Bavarian prince of this name. A Prussian politician with this first name kept power by making melodramatic offers to resign, which persuaded Wilhelm I to retain him. ANSWER: Otto [accept $\underline{\text { Otto }}$ of Greece; accept $\underline{\text { Otto }}$ von Bismarck]
<Suh, European History>
13. In a historic July 2019 meeting, a leader of this country signed a "Joint Declaration of Peace and Friendship" with President Isaias Afwerki. For 10 points each:
[10m] Name this country. On a later visit to this country, President Isaias proclaimed that "anyone who says Eritreans and [people from this country] are two different peoples is one that doesn't know the truth."

## ANSWER: Ethiopia

[10e] Ethiopian Prime Minister Abiy Ahmed won this accolade in October 2019 for his efforts in brokering a peace deal with Eritrea. Previous winners of this accolade include Nadia Murad and Malala Yousafzai.
ANSWER: Nobel Peace Prize [prompt on partial answer]
[10h] This Oromia Media Network founder has accused Ahmed of harboring authoritarian tendencies, even though this controversial activist had previously helped orchestrate the protests that brought Ahmed to power.
ANSWER: Jawar Mohammed [prompt on Mohammed]
$<$ R. Li, Current Events>
14. This practice is initiated by the adhan, and those performing it point their bodies towards the qibla. For 10 points each:
[10h] Name this Arabic term denoting the mandatory five prayers a day as part of the Second Pillar of Islam.
ANSWER: $\underline{\text { salah }}$ [or salat]
[10e] Every movement in salah is accompanied by the takbir, which is the practice of saying that this figure is the greatest. Give the Arabic name.
ANSWER: Allah [prompt on God]
[10m] Adherents to this branch of Islam usually offer salah with hands by their side. This branch of Islam generally believes that Muhammad appointed Ali as his sucessor, and its biggest school is the Twelvers.
ANSWER: Shia Islam [accept Shiites]
<Omer/Suh, Religion>
15. The orchestra pit of this opera house was designed to be completely invisible to the audience in an effort to help them focus solely on the performance onstage. For 10 points each:
[10m] Name this opera house, the setting of an annual namesake festival that often features performances of The Ring Cycle.
ANSWER: Bayreuth ["BYE-royt"] Festival Theatre [or Bayreuth Festspielhaus; accept the Bayreuth Festival]
[10e] The aforementioned Ring Cycle was written by this German composer. The second entry in The Ring Cycle, Die Walküre, ["dee vall-CURE"] features a famous "Ride of the Valkyries."
ANSWER: Richard Wagner ["vog-nur"]
[10h] Another Wagner opera in the so-called "Bayreuth canon" is this one about the title Minnesinger who loves Princess Elisabeth and receives God's forgiveness after his death.
ANSWER: Tannhäuser ["TAHN-hoy-zer"]
<Suh, Opera>
16. One of these events is immediately followed by "a fine crash from the piano" and a character's insistence that a certain object "twisted...like a snake." For 10 points each:
[10h] Name these events from a W.W. Jacobs short story. After the third one of these events, a woman frantically opens a door to reveal "a quiet and deserted road."
ANSWER: wishes from "The Monkey's Paw" [prompt on wishes by asking "from what story?"]
[10m] In a story by this author, Groby Lington's brother recounts how a monkey kills a parrot that screeches "Rats to you, sir." The imaginative Vera convinces Framton that he is seeing ghosts in this author's "The Open Window." ANSWER: Saki [or Hector Hugh Munro]
[10e] Saki shares his real surname, Munro, with a short fiction author and 2013 Nobel laureate from this country. In a short story set in this country, Janet's father identifies Jupiter's moons from memory while in a Toronto hospital.
ANSWER: Canada
$<$ R. Li, World Literature>
17. Large cosmic masses can act as "gravitational" examples of these objects to create Einstein rings. For 10 points each:
[10e] Name these objects whose power can be computed in terms of radii of curvature by a formula named for a "maker" of them. These objects use refraction to focus light to a single point, and are often contrasted with mirrors.

## ANSWER: lenses

[10h] A lens failing to focus all colors at one point is evidence of this specific phenomenon, which is contrasted with a "spherical" variety of the same general phenomenon.
ANSWER: chromatic aberration [prompt on aberration]
[10m] Chromatic aberration is caused by this optical phenomenon, in which different wavelengths refract at different angles.
ANSWER: dispersion
<Yue, Physics>
18. This character's first origin story was recounted in a 1951 issue in which Red Hood leaps into a vat of chemicals to escape Batman. For 10 points each:
[10e] Name this villain, who is sometimes accompanied by his sidekick Harley Quinn. Heath Ledger portrayed this villain in Christopher Nolan's The Dark Knight.

## ANSWER: Joker

[10h] The plot of the 2019 film Joker was influenced by this Alan Moore graphic novel that won the Eisner Award for 'Best Graphic Album' in 1989. Some readers believe this comic ends with Batman breaking the Joker's neck.
ANSWER: "Batman: The Killing Joke"
[ 10 m ] In another famous Batman comic titled "A Death in the Family," the Joker brutally murders Jason Todd, who had taken over this title from the original Dick Grayson.
ANSWER: Robin
<Duffy/Yue, Trash>
19. José Saramago imagined the romantic involvements of one of this author's "heteronyms" in his novel The Year of the Death of Ricardo Reis. For 10 points each:
[10h] Name this poet who wrote a "factless autobiography" about Bernardo Soares, The Book of Disquiet. ANSWER: Fernando Pessoa
[10e] Pessoa was a poet from this country. Saramago, another author from this country, followed the plight of characters from Spain and this country after the Iberian peninsula breaks off from Europe in The Stone Raft. ANSWER: Portugal
[10m] Portugal's national epic, Luís Vaz de Camões's ["loo-EESH VAZ de cam-OH-eesh"] The Lusiads, follows this "eloquent captain" as he travels to the Isle of Love to feast with Tethys. In it, this historical figure meets the Old Man of Restelo before sailing to India.
ANSWER: Vasco da Gama
<Yue, European Literature>
20. This man was called the "uncle" of the civil rights organization Congress of Racial Equality. For 10 points each: [10h] Name this civil rights and gay rights activist who planned the 1941 March on Washington Movement with Asa Philip Randolph. This man was once arrested in Pasadena for public indecency.

## ANSWER: Bayard Rustin

[10m] This Senator criticized Rustin as a "Communist, draft-dodger, and homosexual" and entered his Pasadena arrest file into record. This Dixiecrat once delivered a 24 -hour filibuster in opposition to the Civil Rights Act of 1957.

ANSWER: Strom Thurmond
[10e] Thurmond served as a Senator of this state for 49 years. The Civil War began near Charleston in this state with the Battle of Fort Sumter.
ANSWER: South Carolina
<Suh, American History>
21. This feature is relatively young, having been formed during the catastrophic Hesperian Period. For 10 points each:
[10m] Name this shield volcano with a height of over 20 kilometers. This mountain is the tallest in the Solar System. ANSWER: Olympus Mons [or Mount Olympus]
[10e] Olympus Mons is tall enough that it stands above the dust storms on this planet. Giovanni Schiaparelli ["skeeah-pah-REH-lee"] erroneously believed there were canals on this red planet, the fourth from the sun.
ANSWER: Mars
[10h] Several moons, including Titan and Ganymede, feature this type of volcano that erupts volatiles like water, ammonia, and methane, instead of molten rock.
ANSWER: cryovolcanoes [or ice volcanoes]
<Duffy, Astronomy>

