

Prison Bowl XIII: XIII Is Unlucky for a Reason

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PACKET ELEVEN

Tossups:

1.

The Walker report condemned police brutality at this event. Gore Vidal called William F. Buckley “pro-crypto-Nazi” at this event. CBS anchor Dan Rather was assaulted at this event, prompting him to call the security there “a bunch of thugs.” Abbie (*) Hoffman and others were charged after trying to incite a riot at this event. At this event, Abraham Ribicoff denounced the police’s “Gestapo tactics.” The Yippies floated an inflatable pig called “Pigasus” at this event. For 10 points, name this event in Chicago, at which Hubert Humphrey received his party’s nomination for President but later lost to Richard Nixon.

ANSWER: **1968 Democratic National Convention** [prompt on partial] <PO>

2.

This experiment led to a model that predicted that s is proportional to cosecant one-half theta to the fourth and Q -sub- n . A tube with radium, radon, and bismuth-214 was used in the setup of this experiment and a zinc sulfide sheet was used to measure the number of (*) scintillations that occurred, thus acting as a primitive Geiger counter. The results of this experiment were compared to “firing a 15-inch shell at ... tissue paper and it came back and hit you,” and this experiment disproved the plum pudding model. For 10 points, name this experiment in which alpha particles were directed at the namesake metal entity that demonstrated the existence of a positively-charged nucleus.

ANSWER: **Rutherford gold foil** experiment [accept either underlined portion; accept **Geiger-Marsden** experiment] <BC>

3.

It’s not Rubens, but in a painting by this artist, a peacock watches as milk sprays into the sky from Hera’s nipple. In another painting by this artist, a naked man lies amongst broken tools while St. Mark descends toward him from above. A painting by this artist shows Jesus kneeling on a pink and blue tiled floor while washing (*) St. Peter’s feet. At the top of one of this man’s paintings, smoke takes the form of angels above the title scene in which Jesus sits at the end of an angled table beneath a blazing lantern. For 10 points, name this Venetian Artist of *The Miracle of the Slave* and *Il Paradiso*.

ANSWER: **Tintoretto** [accept Jacopo **Comin**] <AJ>

4.

In this work, Raymond Andrews tenderly cares for his tomato plants in the aftermath of his daughter’s suicide. A character in this work writes a story in which a man kills his wife after finding a magic cup that turns his tears into pearls. A character’s assertion that “there is a way to be good again” prompts this novel’s protagonist to visit Rahim Khan. A (*) cleft-lipped character in this novel shouts “For you, a thousand times over”; that character later gets raped by the sadistic Assef. Hassan performs the title action after Amir wins a local competition in, for 10 points, what novel that begins in 1970s Afghanistan, a work by Khaled Hosseini?

ANSWER: *The **Kite Runner*** <AZ>

5.

Recent commentators have defined Wicksell's natural interest rate at when this quantity equals the potential [this quantity]. Simon Kuznets first defined this concept in 1934, but warned about its "misleading ... precision and simplicity." The "gap version" of Okun's law describes how an increase in unemployment leads to a decrease in this quantity, which is defined as (*) C plus G plus I plus NX in a particular geographic area. Two consecutive quarters of decline of this quantity are often considered the beginning of a recession. For 10 points, name this measure of the total value of all goods and services produced in a time period by a country, and can be contrasted with GNP.

ANSWER: Gross Domestic Product [do not accept or prompt on "GNP" or "gross national product"] <PO>

6.

This character assumes a bonnet she finds belongs to a servant, offending the actual owner, her husband's Aunt Julia. This character befriends a man who, unlike her husband, is "not at all a specialist," and who later reveals the true nature of a man's death at Mademoiselle Diana's boudoir. This woman gives one of her father's (*) pistols to an ex-lover of hers, telling him to kill himself "beautifully." In order to secure a university position for her husband, George Tesman, this character burns a manuscript belonging to Eilert Løvborg. For 10 points, name this title character who shoots herself at the end of a Henrik Ibsen play.

ANSWER: Hedda Gabler [accept either underlined portion; accept Hedda Tesman, prompt on Tesman] <AJ>

7.

Poseidon struck one of these creatures with his trident when it attempted to rape Amymone ("eh-meh-MOH-nay"). Another of these beings named Ampelos was gored and killed after mocking the goddess Selene, and his body was turned into a grape vine. After picking up an instrument that Athena had cursed, one of these beings subsequently died by being (*) flayed alive. King Midas received the golden touch for sheltering one of these creatures, and he judged a competition between Apollo and one of these creatures named Marsyas. For ten points, name these creatures in Greek mythology who attend to Dionysus and chase after wood nymphs.

ANSWER: satyrs [accept silenos, prompt on fauns until "Greek," do not accept or prompt afterwards] <MS>

8.

Note to moderator: read slowly

In the major key based on this note, the Neapolitan chord is E-flat in first inversion. This note is the lower of two notes that appear in the ascending F melodic minor scale, but not the descending F melodic minor scale. A plagal cadence in this key begins with G major and this note is the submediant of F major and the subdominant of (*) A major. This note is the third in the B-flat major scale, and in C major, the mode that begins on this note is the Dorian. The major scale beginning with this note has 2 sharps, and this note is the fifth in a G major chord. For 10 points, name this note that follows C in the C major scale.

ANSWER: D <BC>

9.

One of this author's theories replaced both the "Germanic germ" theory and Theodore Roosevelt's "racial warfare" theory. This historian won a Pulitzer prize for his book *The Significance of Sections in American History*. In one essay, this historian discussed the "three waves" of settlement in the (*) West, and blamed its individualism for the spoils system. At the World's Columbian Exposition, this writer posited the idea that the success of the United States was based on its westward expansion. For 10 points, name this American historian who formulated the Frontier Thesis.

ANSWER: Frederick Jackson Turner <AZ>

10.

A mutation in the SOD1 gene leads to this disease, and Riluzole is a drug designed to oppose it. The bulbar-onset form of this disease is less common than its spinal-onset form. It's not muscular dystrophy, but people with this disease often die of pneumonia due to respiratory (*) muscles being attacked. In the later stages of this disease, swallowing, speaking, and breathing are made difficult by the rapid atrophy of muscles. For 10 points, name this disease that leads to motor neurons rapidly degenerating that afflicted Stephen Hawking and Lou Gehrig and was the subject of a namesake "Ice Bucket" challenge.

ANSWER: **amyotrophic lateral sclerosis** [accept **ALS**; accept **Lou Gehrig's disease** until "Lou Gehrig" and prompt thereafter; prompt on **motor neuron disease** until mention] <BC>

11.

The Tarkine is a region on this island that contains its Savage River National Park. Mount Ossa is the tallest mountain on this island. This island's North and South Esk Rivers combine to form the Tamar River in this island's city of Launceston. Port Arthur is a settlement on this island that formerly hosted (*) convicts. This island was known as Van Diemen's Land until 1856. The Bass Strait separates this island from Victoria in Australia. With capital at Hobart, for 10 points, name this island located south of Australia that is home to a namesake "devil."

ANSWER: **Tasmania** [accept **Van Diemen's Land** until mention] <BC>

12.

In this work, Travis playfully swings a stickball bat at his aunt while she sprays insecticide, telling her to "leave them poor little cockroaches alone." A neighbor who jokes that the central family will be bombed and killed in a month was cut from this play's Broadway performance; that character is Mrs. (*) Johnson. The family moves into Clybourne Park at this play's end, despite the efforts of Karl Lindner. In this play, Joseph Asagai ("AH-suh-guy") teaches Beneatha about her African culture, and Walter and his mother disagree over how to use a \$10,000 life insurance check. For 10 points, name this play about the Younger family by Lorraine Hansberry.

ANSWER: **A Raisin in the Sun** <RY>

13.

Description acceptable. **Following this event, mangosteen farmers from the city of Muar were investigated. Men falsely claiming to be Luigi Maraldi and Christian Kozel were suspected to be involved in this event, but were later discovered to be asylum seekers. Zaharie Ahmad Shah may have perpetrated this event, during which two transponders ceased to function. Jon Stewart mocked CNN host Don Lemon for speculating that a (*) "small black hole" was responsible for this event. A flaperon discovered on Réunion in 2015 became the first piece of debris discovered from this event.** For 10 points, name this 2014 event in which an airplane flying from Kuala Lumpur disappeared.

ANSWER: **Malaysia Airlines Flight 370** disappearance [accept any answers referring to the **Malaysia Airlines** flight that **disappeared**; accept **MH 370** disappearance; accept descriptive answers about a **Malaysia Airlines** Flight that **crashed** in the **Indian Ocean**; prompt on answers referring to a **Malaysia Airlines crash**; do not accept answers referring to "Malaysia Airlines Flight 17" or "MH17" or a Malaysia Airlines plane being shot down] <CO>

14.

This figure described himself as a "transmitter who invented nothing." One story about this figure highlights his disinterest in the fate of horses after a fire at a stable. It's not Hillel, but the maxim "What you do not wish for yourself, do not do to others" is often attributed to this figure; that maxim is this figure's (*) "Silver Rule." Ren and li are the two central virtues of this figure's philosophy. This figure's followers included Mencius, and he discouraged hair-cutting as part of his emphasis on filial piety. For 10 points, name this Chinese philosopher who wrote the Analects.

ANSWER: **Confucius** [accept **Kǒng Fūzǐ**, **Kǒng Qiū**, or **Zhòngní**] <AJ>

15.

Hess diagrams plot the density of the things that are found on these constructs. On these constructs, if a radiative zone develops, an object follows the Henyey track, and Delta Scuti and SX Phoenicis variables are located in the region of these entities' "instability strip." On these entities, T Tauris ("T TAU-rees") follow the Hayashi Track downwards, and the top axis of these diagrams contains (*) O to M which covers a variance in color from blue to red. Found below where red giants are found, most of the objects on these diagrams are on the main sequence. For 10 points, name these doubly-eponymous diagrams that plot luminosity versus temperature for stars.

ANSWER: Hertzsprung-Russell diagrams [accept H-R diagrams] <BC>

16.

Note to moderator: "Aeronaut," not "astronaut"

This man plays a Texan aeronaut named Lee Scoreseby ("scores-bee") who is charged with taking care of Lyra in a series based on Philip Pullman's trilogy *His Dark Materials*. This man sings "Trip A Little Light Fantastic" in *Mary Poppins Returns* and wrote "How Far I'll Go" for (*) *Moana*. In one work by this man, Vanessa falls in love with Usnavi, while Claudia wins a lottery for \$96,000. In this composer's most successful musical, a Founding Father dies in a duel with Aaron Burr and becomes the first Secretary of the Treasury. For 10 points, name this composer and star of the musicals *In the Heights* and *Hamilton*.

ANSWER: Lin-Manuel Miranda <EL>

17.

This figure's wife tells his father that he is pleased with "the threshold of his door." This figure and his mother were banished because of the jealousy of Sarah, causing this figure to produce water by scratching the ground after his mother runs between two (*) hills. After being tempted by the devil, this man tells Ibrahim to sharpen his knife and asks that his shirt be brought back to Hajar. Along with his father, this figure built the Kaaba. For 10 points, name this first son of Ibrahim whose near-sacrifice is celebrated during Eid al-Adha.

ANSWER: Ismā'īl [accept Ishmael] <AJ>

18.

One of this author's poems discusses a time "when I am gone away" and "when no more day by day / You tell me of our future that you plann'd." In another poem, this author mentions Jeanie, who "dwindled and grew grey" one winter, and over whose grave grass does not grow. A Christmas carol by this author, which states (*) "Snow had fallen, snow on snow" in the title season, was set to music by Gustav Holst. A poem by this author of "Remember" and "In the Bleak Midwinter" centers on sisters Laura and Lizzie and the fruits which the title beings entreat them to "come buy, come buy." For 10 points, name this poet of "Goblin Market" and sister of Dante Gabriel.

ANSWER: Christina Georgina Rossetti [both underlined parts required; prompt on Rossetti] <RY>

19.

The Bell-Limbach tunnelling model is a modification of this equation. In a variant of this equation, a factor is replaced by Boltzmann's constant times the transmission coefficient over h; that equation is the Eyring equation. Making a linear plot of this equation gives the slope as negative E-sub-A over R and the y-intercept is the log of the (*) steric factor and collision frequency. This equation states that e to the negative activation energy over RT times the pre-exponential factor is equal to the rate constant. For 10 points, name this equation that models how reaction rates are affected by temperature and is named for a Swedish chemist.

ANSWER: Arrhenius equation <BC>

20.

This group rejected an offer from Gustav IV to take control of Gotland. Philippe Villiers de L'isle Adam was one leader of this group, which paid Charles V one falcon per year to possess Gozo, Tripoli, and another island. Baibars's siege of this group's Krak des Chevaliers forced this group to move its headquarters to Cyprus and then (*) Rhodes. This group, once led by Jean de Vallette, successfully defended against the Ottomans during a Great Siege of their namesake country. For 10 points, name this group of knights, famous for their care of sick pilgrims, named after a country with capital Valletta

ANSWER: Knights of **Malta** [accept Knights **Hospitaller** before "Malta" and prompt afterwards; accept **Order of Saint John**; accept **Order of Knights of the Hospital of Saint John of Jerusalem**; do NOT accept or prompt on "Knights Templar"] <CO>

TB.

Strain gauges measure force indirectly by using this quantity. The chordal form of this quantity is commonly used in batteries, and Gunn diodes have a negative value for this quantity. Four-terminal sensing is utilized to accurately measure this quantity. The differential form of this quantity can be read as the derivative of an (*) I-V curve, and power is proportional to current squared times this quantity. This quantity is the real part of impedance, and this quantity is equal to voltage divided by current according to Ohm's law. For 10 points, name this reciprocal of conductance that is measured in ohms.

ANSWER: **resistance** <AJ>

Bonuses:

1.

Some administrations have more scandals than others. For 10 points each:

[10] Bill de Blasio allegedly kneecapped a commission looking into these schools in exchange for political support among Orthodox Jews. Many of these schools have been criticized for failing to offer their children basic education in English, math, and science.

ANSWER: **yeshivas**

[10] De Blasio used the resignation of this man to argue for city control of the subway. This man helped improve subway on-time performance from 70% to 85% following his work with the TTC in Toronto.

ANSWER: Andy **Byford**

[10] The federal government installed a monitor at NYCHA (“NYE-chuh”), which controls New York City public housing, due to the elevated presence of this element in paint. This element is responsible for the Flint water crisis.

ANSWER: **lead** [accept **Pb**; accept element **82**] <PO>

2.

This artist painted a man and woman staring at each other through a casement. For 10 points each:

[10] Name this Florentine priest and painter of *Adoration in the Forest* and the Barbadori Altarpiece.

ANSWER: Fra **Fillipo Lippi** [accept **Lippo** Lippi]

[10] Fra Lippo Lippi titles a poem by this British poet, instructing the painter to “paint the soul, never mind the legs and arms.” This poet also wrote a poem titled after a woman who reacts in the same way to the speaker’s “favour at her breast, the dropping of the daylight in the West, [and a] bough of cherries.”

ANSWER: **Robert Browning** [prompt on **Browning**]

[10] Fra Lippo Lippi was the teacher of this painter of *Primavera* and *The Birth of Venus*.

ANSWER: Sandro **Botticelli** <RY>

3.

The namesake of this law also formulated the law of thermoneutrality. For 10 points each:

[10] Name this law that states that the total change in enthalpy of a reaction is independent of how many steps there are, and in what order. This law can be used to calculate the total enthalpy of two reactions by adding together the enthalpies of each.

ANSWER: **Hess’s** law of constant heat summation

[10] Hess’s law is a way of expressing the conservation of this quantity, which, according to the first law of thermodynamics, is neither created nor destroyed in a closed system.

ANSWER: **energy** [do not accept “potential energy” or “kinetic energy”]

[10] This approach to analyzing the energy of a reaction depends on the fact that, by Hess’s law, enthalpy is a state function. This approach is often used to calculate lattice energy.

ANSWER: **Born-Haber** cycle <BC>

4.

Name some incidents during the Banana Wars, for 10 points each:

[10] Following its namesake country's secession from Colombia in the Thousand Days' War, the U.S. seized a part of it to construct this structure, which connects the Atlantic and Pacific Oceans.

ANSWER: **Panama Canal**

[10] In response to the arrest of nine American sailors and the subsequent refusal of a salute in the Tampico Affair, as well as an incoming German arms shipment, Woodrow Wilson gave orders to seize this Mexican port.

ANSWER: Heroica **Veracruz**

[10] This country saw many American interventions related to the United Fruit Company and the Cuyamel Fruit Company, whose influence over leaders of this country like Manuel Bonilla led O. Henry to coin the term "banana republic."

ANSWER: Republic of **Honduras** <JH>

5.

This author opened one of his collections, "You who hear the sound of scattered rhymes." For 10 points each:

[10] Name this author of *Il Canzoniere*, which includes many poems dedicated to Laura.

ANSWER: **Petrarch**

[10] Petrarch was part of this cultural movement of the Renaissance, which also refers to philosophies that center on man. Sartre gave a lecture stating that existentialism is one of these philosophies.

ANSWER: **humanism**

[10] Petrarch is best known for his works of this poetic form. Another type of this 14-line form is named after Shakespeare.

ANSWER: **sonnet** <RY>

6.

Hydroxyurea is a drug used to treat this disease. For 10 points each:

[10] Name this autosomal recessive disease which leads to namesake abnormally shaped blood cells that carry less oxygen. Possessing one allele for this disease confers resistance to malaria.

ANSWER: **sickle-cell** anemia [accept **sickle-cell** disease; prompt on **SCA** or **SCD**]

[10] People who have only one allele for sickle-cell anemia are resistant to malaria and thus exhibit this phenomenon, in which possessing two different alleles for a single gene confers greater fitness.

ANSWER: **heterozygote advantage** [accept **heterozygous advantage**]

[10] Sickle-cell anemia is caused by a point mutation in the beta-globin gene, in which this amino acid is replaced with a valine. The anion of this amino acid makes up the vast majority of synaptic connections in the brain.

ANSWER: **glutamic acid** [accept **Glu** or **E**; generously prompt on **glutamate**] <BC>

7.

For 10 points each, name some things about fasting in mythology:

[10] After the death of his close friend Patroclus, this Greek warrior is devastated, refusing to eat and smearing ash on his body. This man, whose only vulnerability was his heel, was eventually killed by an arrow shot by Paris.

ANSWER: **Achilles**

[10] Odin hanged himself from a branch of the world tree Yggdrasil for nine days without food or drink and after wounding himself with one of these weapons. He is frequently depicted with one of these weapons named Gungnir.

ANSWER: **spear**

[10] In the *Mahabharata*, Bhagiratha relates how this Hindu god was the first to keep the vow of fast, keeping it a secret before it was shared with the universe by another god. His mount was named Airavata.

ANSWER: **Indra** <RY>

8.

This region was the site of a devastating 1943 famine. For 10 points each:

[10] Name this region, which was definitively partitioned into East and West by the Mountbatten and Radcliffe plans.

ANSWER: **Bengal**

[10] Bengal was the site of the Battle of Plassey, in which Robert Clive defeated this Nawab of Bengal. This man was the last ruler of an independent Bengal, and he was responsible for the Black Hole of Calcutta.

ANSWER: (Mirza Muhammad) Siraj **ud-Daulah** [accept Sir Roger **Dowler**]

[10] Robert Clive belonged to this country's East India Company, which would formally crown Victoria as Empress of India after the Sepoy Mutiny.

ANSWER: **United Kingdom** of Great Britain and (Northern) Ireland [accept Great **Britain** or **G.B.**; accept **England**] <PO>

9.

In this novel, the main character identifies herself only as a “non-American black” online, and Barack Obama's presidential candidacy causes her to stay with the Yale professor Blaine until after the election. For 10 points each:

[10] Name this novel in which Ifemelu creates the blog Raceteenth and later moves back to her native country, where she reconnects with Obinze.

ANSWER: **Americanah**

[10] *Americanah* is by this author of *Half of a Yellow Sun* and *We Should All Be Feminists*.

ANSWER: Chimamanda Ngozi **Adichie**

[10] Adichie is a native of this country, the setting of *Half of a Yellow Sun*, which takes place during the Biafran War. Ifemelu and Obinze grew up in this country's city of Lagos.

ANSWER: Federal Republic of **Nigeria** <AJ>

10.

This film begins by including excerpts from *Birth of a Nation* and ends with footage of the Unite the Right rally. For 10 points each,

[10] Name this film about African-American police officer Ron Stallworth infiltrating the Ku Klux Klan and befriending people such as David Duke.

ANSWER: **BlacKkKlansman**

[10] *BlacKkKlansman* was directed by this man, whose other work includes *She's Gotta Have It* and *Malcolm X*. He is known for his frequent use of dolly shots and his frequent attendance at Knicks games.

ANSWER: Spike **Lee**

[10] In this Spike Lee film, Mookie throws a trash can through the window of Sal's Pizzeria after a riot breaks out in Bed-Stuy following the death of Radio Rahim at the hands of the police.

ANSWER: **Do The Right Thing** <AJ>

11.

This author of *The Last Age of the Church* was targeted by the 1408 Constitutions of Oxford. For 10 points each:

[10] Name this British theologian, the leader of the Lollards and the author of one of the first English translations of the Bible.

ANSWER: John **Wycliffe**

[10] Wycliffe was an influence on this man, who started the Protestant Reformation by attaching his Ninety-Five Theses to the door of a church in Wittenberg (“VIT-en-berg”).

ANSWER: Martin **Luther**

[10] One of Luther’s contemporaries was this Catholic theologian who advocated for church reform and authored *In Praise of Folly*.

ANSWER: Desiderius **Erasmus** Roterodamus [accept Desiderius **Erasmus** of Rotterdam] <AJ>

12.

This colonial power lost all of its possessions after the Treaty of Versailles. For 10 points each:

[10] Name this country, which hosted the Berlin Conference, formalizing the “Scramble for Africa.”

ANSWER: **Germany** [accept Bundesrepublik **Deutschland**; accept **Deutsches Reich**]

[10] Germany had to surrender German East Africa, which became known by this name under British rule and, for two and a half years, as an independent country. In 1964, it merged with Zanzibar to make Tanzania.

ANSWER: **Tanganyika**

[10] In what is now Namibia, Germany committed the “first genocide of the 20th century” by killing San and Damara people and attempting to exterminate members of these two revolting tribes. Name either one.

ANSWER: Ovu**herero** and/or **Namaqua** <PO>

13.

For 10 points each, name some things about the minimalist composition *In C*.

[10] *In C* was written by this American composer, whose other works include the album *A Rainbow in Curved Air* and has collaborated with the Kronos String quartet a lot.

ANSWER: Terry **Riley**

[10] The sheet music for *In C* consists of 53 motifs given this name, and motifs given this name were defined as the “smallest indivisible unit.” This name also names a theory that posits that all living matter is made up of at least one of their namesake entities.

ANSWER: **cells**

[10] During the whole duration of *In C*, Riley instructed that “a beautiful girl” play repeated eighth note Cs on this instrument. John Cage was a pioneer in using the “prepared” form of this instrument with 88 keys.

ANSWER: forte**piano** <BC>

14.

Zip zap zop is a fun theater game, but right now it’s time for something a little different. For 10 points each:

[10] Zipf’s Law states that in many collections of data, such as frequency of English-language words, the nth most common term will occur this much compared to the most common term.

ANSWER: **1/n** [“one nth” or “one over n”; accept answers referring to the **reciprocal** of n; accept **n to the negative first** power or equivalents]

[10] Hermann Zapf was a German calligrapher and type designer who also helped illustrate *3:16 Bible Texts Illuminated*, a book by this creative computer programmer who is perhaps best-known for his eponymous up-arrow notation.

ANSWER: Donald **Knuth**

[10] Zopf is a plaited Swiss type of this foodstuff. It resembles challah, a Jewish variety of this foodstuff.

ANSWER: **bread** <CO>

15.

For 10 points each, name some things related to the last name Campbell in literature and art:

[10] In *The Picture of Dorian Gray*, Dorian blackmails the chemist Alan Campbell into getting rid of this artist's body. This artist is the first of many whom Dorian kills and painted the title portrait.

ANSWER: **Basil Hallward** [accept either]

[10] This pop artist made a series of paintings depicting Campbell soup cans. He also made pieces with portraits of Marilyn Monroe and Mao Zedong.

ANSWER: Andy **Warhol** [accept Andrew **Warhola**]

[10] In one novel, Mike Campbell competes with Robert Cohn and the bullfighter Romero for the hand of this woman. The novel in which this woman appears ends with her saying "We could have had such a damned good time together," to which an ex-lover replies, "Isn't it pretty to think so?"

ANSWER: Lady **Brett Ashley** [accept either, editor note: the unnamed novel is *The Sun Also Rises*] <RY>

16.

English is an ever-changing language, and so some of its letters are no longer extant. For 10 points each:

[10] English formerly used the letter *ash*, a ligature featuring these two vowels placed together.

ANSWER: **a** and **e**

[10] Old English used two letters for the "th" sound — *thorn* for the sound in "think" and *this* letter for the harder sound in "there."

ANSWER: **eth** [accept **edh** or **eð**; prompt on a physical description of the letter **ð** by asking, "What's the name of the letter?"]

[10] Norman scribes replaced the Middle English letter *yogh* with the digraph of these two letters, which are now usually silent in the middle or end of words.

ANSWER: **g** and **h** <CO>

17.

These two characters reminisce about a soccer game in which a disputed penalty was awarded to Tottenham ("TOT-numb") Hotspur. For 10 points each:

[10] Name these two hitmen hired by the mysterious Wilson. At the end of the play they appear in, it is implied that one must shoot the other.

ANSWER: **Gus** and **Ben** [prompt on partial answer]

[10] Gus and Ben appear in *The Dumb Waiter*, a work by this playwright. His other early works include *The Caretaker* and *The Birthday Party*.

ANSWER: Harold **Pinter**

[10] In *The Dumb Waiter*, Gus tells Ben to look at a picture of "The First Eleven," a group of people who play this sport. The Mumbai Indians won the 2019 Indian Premier League while playing this bat-and-ball sport.

ANSWER: **cricket** <AZ>

18.

For 10 points each, name some things about al-Andalus.

[10] This Muslim dynasty took over much of al-Andalus after the Almoravid dynasty fell apart. It lost the battle of Las Navas de Tolosa.

ANSWER: **Almohad** dynasty [accept al-**Muwahhidūn**; accept Banu Abd al-**Mumin**]

[10] The Christians and Jews who made up much of al-Andalus's population were generally allowed religious freedom, in exchange for their payment of the *jizya*, one of these levies, the payment of goods or money to a government.

ANSWER: **taxes** [accept word forms]

[10] The defeat of this emirate in 1492 marked the end of Muslim rule in the Iberian peninsula. This state's namesake capital city contains the Alhambra.

ANSWER: Emirate of **Granada** [accept Nasrid Kingdom of **Granada**; accept Imārat **Ġarnāṭah**] <PO>

19.

Let's talk about everyone's favorite Enlightenment philosopher, Zera Yacob! For 10 points each:

[10] Yacob hailed from this city at the base of the Adwa mountains, the capital of its namesake empire. This city in Tigray contains many still-standing ancient obelisks.

ANSWER: **Axum** [accept **Aksum**, **Ak'səm**, or **Aksūm**]

[10] Yacob's *Inquiry* was published seven years before this philosopher published an oddly similar work in which he described the title "method." This philosopher distinguished between human and animal souls in another work.

ANSWER: René **Descartes** [accept Renatus **Cartesius**]

[10] Descartes was describing a series of rules for this field, which he dabbled in himself by studying the properties of light. This broad field involves performing experiments.

ANSWER: **science** [anti-prompt on fields like philosophy or optics by asking "What broad academic field is that a subfield of?"] <AJ>

20.

This law can be stated as the equation j star equals sigma T to the fourth. For 10 points each:

[10] Name this law which can be used to calculate the blackbody radiation emitted by an object.

ANSWER: **Stefan-Boltzmann** law

[10] Black body radiation was discovered by this German physicist and namesake of two circuit laws, one of which says that the sum of currents entering a node is equal to the sum of the currents leaving it.

ANSWER: Gustav Robert **Kirchhoff**

[10] Kirchhoff also discovered cesium and rubidium along with this scientist, the namesake of a laboratory device that heats things with a gas flame.

ANSWER: Robert Wilhelm Eberhard **Bunsen** <AJ>

TB.

Tchaikovsky's 5th symphony begins with a long G, G G long A, G F-sharp G E motif for this instrument. For 10 points each:

[10] Name this instrument. Aaron Copland wrote two concerti: one for piano and one for this instrument.

ANSWER: **clarinet**

[10] A more notable clarinet concerto was composed by Mozart and is in this major key, whose relative minor is F-sharp minor. This key has three sharps.

ANSWER: **A** major

[10] The first movement of Mozart's clarinet concerto is an allegro in this form. This form has three main sections: exposition, development, and recapitulation.

ANSWER: **sonata**-allegro form <BC>