



2022 Sectional Championship
Tournament (Division I)
Packet 1

Questions

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1. **One of these reactions initiates the alternative pathway of the complement system. By adding an ADP-ribose group, the cholera toxin prevents this kind of reaction, which acts as a "molecular timer" for G protein signaling. One of these reactions occurs through an S_N1 substitution to (*) creatine phosphate during exercise. This type of reaction releases phosphate and 7.3 kilocalories per mole of energy when it occurs to ATP. For 10 points—what kind of reaction splits a molecule in two using water?**

answer: hydrolysis (or hydrolytic reactions or hydrolytic cleavage; prompt on "cleavage")

<547046>

1. This representation of quantum mechanics splits a Hamiltonian into a free part that is solvable and a perturbation part that contains complex system dynamics. For 10 points each—
- A. Name this representation that unifies the Heisenberg ["HIGH"-zin-bairg] and Schrödinger [SHRAY-ding-ur] pictures.

answer: interaction picture (or Dirac picture)

- B. In the interaction picture, these things and state vectors are both time-dependent. These things must be Hermitian ["her-mission"] so that their associated observables have real values.

answer: operators

- C. The interaction picture is used in derivations of this physicist's "golden rule." Spin one-half particles such as electrons are named for this physicist.

answer: Enrico Fermi ["FAIR-me"] (accept Fermi's golden rule)

<553739>

2. **Prior to the election in this year, a minor party spun off the "National Party" after losing its "Broad Gaugers." Another party nominated the champion of "rural free delivery," Tom Watson, as a vice presidential candidate in this year. Mark Hanna ran a (*) "front porch campaign" for the Republican who won this election over a man who accepted Democratic and Populist Party nominations after giving the "Cross of Gold" speech. For 10 points—what election did William Jennings Bryan lose to William McKinley?**

answer: (U.S. presidential election of) 1896 (prompt on "96")

<357535>

2. For 10 points each—answer the following about Byzantine emperors who returned to the throne after being deposed:

- A. This Byzantine emperor, the last from the Heraclian [huh-"RACK"-lee-un] dynasty, was known as "the slit-nosed" because his nose was amputated when he was deposed and exiled to Crimea.

answer: Justinian II (or Ioustinianos II; accept Justinian Rhinotmetos or Justinian Rhinotmetus; prompt on "Justinian (the Slit-Nosed)" or "Rhinontmetos" or "Rhinotmetus")

- B. The Fourth Crusade returned to the throne this emperor from the Angelos dynasty, who had been deposed and blinded by his brother Alexios III.

answer: Isaac II Angelos (or Isaakios II prompt on "Isaac (Komnenos Angelos)" or "Isaakios (Komnenos Angelos)")

- C. The Isaurian emperor Zeno, who was briefly deposed by Basiliscus, ruled during the deposition of this last Western Roman Emperor, who himself was deposed by the barbarian general Odoacer [OH-doh-"ACE"-ur].

answer: Romulus Augustus (or Romulus Augustulus; prompt on "Romulus" or "Augustulus")

<542738>

3. **This river flows through the enormous Onitsha [oh-NEET-shuh] Market, which became the nexus for a genre of pulp fiction in the 1960s. This river's valley provides the historic pasture lands of the riverrine Zarma ethnic group. Extensive palm oil production led its delta to be nicknamed the (*) Oil Rivers. This river also has a massive "Inner Delta," after which it takes an unusually sharp southern turn near Timbuktu [tim-buk-TOO]. For 10 points—what West African river shares its name with a country whose capital is Niamey [nee-AH-may]?**

answer: Niger [nee-ZHAIR or NYE-jur] River (or fleuve Niger)

<485729>

3. For 10 points each—name these literary detectives associated with Oxford:

A. This creation of Dorothy Sayers is an aristocratic detective who helps his future wife, Harriet Vane, root out the author of poison pen letters to Oxford dons in *Gaudy Night*.

answer: Lord Peter (Death Bredon) Wimsey (accept either underlined name; accept 17th Duke of Denver)

B. Ronald Knox argued that references in "The Adventure of the Missing Three-Quarter" and other stories made it clear that this detective, who first appeared in *A Study in Scarlet*, attended Oxford.

answer: Sherlock Holmes (accept either underlined portion)

C. After losing a scholarship to Oxford, this creation of Colin Dexter joined the Thames [temz] Valley Police; he is notable for his interests in crosswords, opera, and classic cars.

answer: Inspector Endeavour Morse (accept either underlined name)

<385599>

4. **This two-word phrase denotes the title object of a novel about Condor Oil by *The Treasure of the Sierra Madre* author B. Traven [TRAH-ven]. This two-word phrase denotes an object tended "in July as in January" for both a "cruel person" and a "sincere friend." This two-word phrase identifies the object (*) "cultivated" in that José Martí poem, which may have inspired Hans and Sophie Scholl's name for a Munich student resistance group in Nazi Germany. The House of York's symbol was—for 10 points—what pale flower?**

answer: white rose(s) (accept The White Rose or Weisse Rose or (cultivo una) rosa blanca; do not accept or prompt on "rose(s)" or "flower(s)")

<521412>

4. Pliny [PLY-nee] the Elder records this sculptor's claim that, while his predecessors "had made men as they really are," this man "made them as they appeared to be." For 10 points each—

A. What sculptor's work likely survives only in copies, most notably a marble after his *The Scraper* pulled from a basement in Trastevere [trah-STEV-uh-ray] in 1849?

answer: Lysippos (or Lysippos)

B. Lysippos differed from the earlier master Polykleitos [pahl-ee-KLYE-tuss] by making the head one-eighth rather than one-seventh of the body; such ancient systems of human proportions are known by this term, from the Greek for "standard."

answer: canon(s) of (body) proportions (or aesthetic canon(s))

C. Lysippos was the court sculptor for this ancient conqueror, who is shown on a sarcophagus excavated from Sidon [SYE-dahn] fighting the Persians at the Battle of Issus.

answer: Alexander the Great (or Alexander III of Macedon or Aléxandros ho Mégas; prompt on "Alexander")

<543835>

5. **A poem set in this city that praises the "strange unheavenly glare" of fresh snow is by Robert Bridges. A poem titled for this city describes people whose faces bear "marks of weakness, marks of woe" and whose voices evoke "mind-forg'd manacles." A sonnet titled for this city says "thy (*) soul was like a Star, and dwelt apart" to a poet who "shouldst be living at this hour." A Wordsworth poem set in 1802 is named after—for 10 points—what title city of a William Blake poem set near "the charter'd Thames [temz]?"**

answer: London (accept London Snow or London, 1802)

<509586>

5. This author died of tuberculosis in 1924, leaving his novel about K.'s struggles with a shadowy bureaucracy unfinished. For 10 points each—

A. Name this author of *The Trial* and *The Castle*.

answer: Franz Kafka

- B. Though Kafka left instructions that his unfinished works were to be burned, this man, Kafka's literary executor, published them posthumously instead.

answer: Max Brod [broht]

- C. While visiting Brod, Kafka met this woman, who later became his fiancée. A 1967 book collects some of Kafka's letters to this woman, who is the dedicatee of his story "The Judgment."

answer: Felice Bauer (accept either underlined portion; prompt on "F.")

<553152>

6. In a 2021 interview, this man likened himself to the "man with wax wings" who was "flying just enough, not too close to the Sun, not too close to the water." This man, who co-founded an advocacy group known as "100 Blacks," became a vegan after a diabetes diagnosis and advocated for (*) city schools to avoid processed meats via the "ban the baloney" resolution. This former police officer and Brooklyn borough president defeated Curtis Sliwa [SLEE-wuh] in a 2021 election. For 10 points—name this mayor of New York.

answer: Eric (Leroy) Adams

<553107>

6. This book refers to Robert McNamara [MAK-nuh-mair-uh] as the "can-do man" in the "can-do era." For 10 points each—

A. Name this 1972 David Halberstam book that profiles a group of young advisors in the Defense Department who crafted flawed Vietnam War policies.

answer: The Best and the Brightest

B. David Halberstam's *The Best and the Brightest* profiles the "Whiz Kids" who came to Washington with this Democratic president in 1961.

answer: John F(itzgerald) Kennedy (or JFK)

C. Many of the Defense Department's "Whiz Kids" came from this nonprofit think tank, a corporation founded by the Douglas Aircraft Company in 1948.

answer: RAND Corporation (prompt on "Research and Development (Corporation)")

<510430>

7. This composer gave performers a choice of pitches to open "Free-style Events," the first movement of his *Concerto for Orchestra*. A choral piece by this man opens with the motif B-flat, F, high E-flat, A-flat, B-flat, on the words "Urah, hanevel" [oo-RAH hah-NAY-vel]. In a symphony by this man, a narrator tells (*) God "let me invent Your dream," interrupting a chorus singing Hebrew prayers. The *Chichester Psalms* and the *Kaddish Symphony* are by—for 10 points—what long-time conductor of the New York Philharmonic?

answer: Leonard Bernstein [BURN-styne]

<528878>

7. For 10 points each—answer the following about video games in which players must take unusual physical actions to progress:

A. In a Sega Genesis game starring this superhero team, characters such as Wolverine, Cyclops, and Nightcrawler must "reset" a computer by pressing the console's actual reset button.

answer: X-Men

B. *Phantom Hourglass*, a 2007 handheld entry in this series, required players to physically close and open the DS to copy a map.

answer: The Legend of Zelda (accept The Legend of Zelda: Phantom Hourglass)

C. This NES adventure game, which stars the yo-yo-wielding Mike Jones, requires players to reveal a code by physically dipping a paper letter included with the game in water.

answer: StarTropics

<514234>

8. **This church created a multi-denominational body to prepare for theocracy known as the Council of Fifty. This church's priestly offices include a proselytizing position held by "seventies." This church includes subdivisions called "stakes," which are divided into "wards." In this church, (*) "quorums" are groups of people ordained to the same office of the priesthood, whose two main orders are the Aaronic [air-AH-nik] priesthood and the Melchizedek [mel-CHIH-zuh-dek] priesthood. For 10 points—name this church founded by Joseph Smith.**

answer: Church of (Jesus Christ of) Latter-Day Saints (or Mormon Church; accept answers identifying Mormons or the church of Mormonism, or the LDS or Latter-Day Saints movement)

<435098>

8. This series illustrates the emergence of modern multinationals using the examples of the Dutch conglomerate Philips and the fictional "UGE" ["U-G-E"]. For 10 points each—
- A. Identify this TV series. Margaret Thatcher personally invited Milton Friedman to England to debate with Nicholas Kaldor after decrying this series as "biased."

answer: The Age of Uncertainty

- B. The BBC styled *The Age of Uncertainty* as the "personal view" of its presenter, this liberal economist who wrote *The Affluent Society*.

answer: John Kenneth Galbraith [gahl-BRAYTH] (or Ken Galbraith)

- C. In 1980 PBS aired this series, Friedman's pro-market rebuttal to *The Age of Uncertainty*, which was accompanied by a book of the same title co-written by Rose Friedman.

answer: Free to Choose(: A Personal Statement)

<538232>

9. **This property, which is directly measurable and independent of distance, has a namesake "excess" defined as the difference in extinction in two passbands. Vega [VAY-guh] is defined as having a value of zero for this property's "U minus B" and "B minus V" indices, which are differences in magnitude measured through (*) filters. This property or wavelength is linked by Wien's [veen's] displacement law to a star's effective temperature. For 10 points—what property is the subject of the mnemonic ROYGBIV ["roy" jee biv]?**

answer: color (or color index; accept color excess or star color; accept color of non-stellar astronomical objects, such as galaxies, before "Wien's displacement law")

<553388>

9. This solvent has been considered for the synthesis of MOFs ["moffs"] due to its green properties and adjustable solvent power. For 10 points each—

- A. Name this solvent, a supercritical fluid used in many extraction methods, such as the decaffeination of coffee.

answer: supercritical carbon dioxide (or sCO₂ or supercritical CO₂)

- B. Supercritical carbon dioxide has applications in these processes for washing clothing without water, which normally use the solvent tetrachloroethylene [teh-truh-klor-oh-EH-thuh-leen], or "perc."

answer: dry cleaning

- C. Other candidates for green solvents include these substances, which are often based on EMIM ["E-M-I-M"]. Unlike deep eutectic solvents, the components of these substances are exclusively discrete.

answer: ionic liquids (or ILs; prompt on "ionic solvents")

<553610>

10. **This city's "Da Hinab" [dah hee-NAHB] gate is named for the legend that Christoph Langenmantel ["LONG"-en-MAHN-tul] aided in an escape after a meeting with Thomas Cajetan [CADGE-uh-tun]. An "apology" named for this city was issued in response to the *Confutatio* [kahn-foo-TAH-tee-oh]. Three years after Maurice of Saxony led the (*) Princes' Revolt, a peace in this city affirmed "*cuius regio, eius religio*" [KWEE-oos "reggie"-oh AY-oos reh-LIJ-ee-oh]. A 1530 "confession" by Philipp Melanchthon [muh-LANK-thun] is named after—for 10 points—what city, which names a 1555 treaty that allowed German princes to choose Catholicism or Lutheranism?**

answer: Augsburg (accept Augsburg Confession or Peace of Augsburg; prompt on answers mentioning "Augusta" or "Augustana")

<520648>

10. A sonnet *dedicated* to this poet begins “we laid him in a cool and shadowed grove / one evening in the dreamy scent of thyme.” For 10 points each—
- A. Name this poet who himself wrote a sonnet beginning “if I should die, think only this of me: / that there’s some corner of a foreign field / that is forever England.”

answer: Rupert (Chawner) Brooke

- B. This World War II-era poet wrote “Sonnet to Rupert Brooke” as well as the sonnet “High Flight,” which begins “oh! I have slipped the surly bonds of Earth.”

answer: John Gillespie Magee (Jr.)

- C. Brooke was called “the handsomest young man in England” by this poet of “An Irish Airman Foresees His Death” and “Easter, 1916.”

answer: William Butler Yeats [rhymes with “gates”]

<537333>

11. **This nascent art movement’s development in Cos Cob was aided by an older artist’s friendship with Theodore Robinson. A museum named for James Michener houses many works from this movement’s “New Hope School.” This movement coalesced after the Society of American Artists was abandoned by J. Alden Weir and other founders of the (*) “Ten American Painters.” John Henry Twachtman [TWOCK’T-mun] and Childe Hassam founded—for 10 points—what art movement that put an American gloss on a style developed by Claude Monet?**

answer: (American) Impressionism (accept American Impressionists or Impressionist painting) [Robinson was friends with Monet and helped American Impressionists correspond with him.]

<543815>

11. For 10 points each—answer the following about statuses of near-citizenship:

- A. Aristotle was among the prominent members of Athenian society who held this status as a long-term foreign resident of Athens who was subject to many of the burdens, but few of the privileges, of citizenship.

answer: metic(s) (or metoikos)

- B. *Civitas sine suffragio* [SIH-vee-tas SEE-nah soo-FRAH-jee-oh], or “citizenship without the vote,” was a category in this republic, in which proposed citizenship reform helped lead to the downfall of Gaius Gracchus.

answer: Roman Republic (or Rome or Res publica Romana)

- C. Between the World Wars, stateless persons could travel and be recognized as refugees with passports named for this Norwegian explorer.

answer: Fridtjof Nansen (or Fridtjof Wedel-Jarlsberg Nansen; accept Nansen passport(s))

<465602>

12. **Two parameters ψ and δ are measured from a change in this property in a non-destructive technique to determine a thin film’s refractive index and thickness. Changes in this property are measured in ellipsometry. States of this property are denoted s for senkrecht [SEN-krekt] and (*) p for parallel.**

Representations of this property include Stokes parameters and Jones vectors. Circular and linear are types of this property. For 10 points—what property is the orientation of a light wave?

answer: polarization (or polarized; do not accept or prompt on “polar” or “polarizing”)

<537923>

12. For 10 points each—answer the following about the process known as “Megxit”:

- A. “Megxit” refers to this man and his wife Meghan Markle opting to withdraw from the British royal family in 2020.

answer: Prince Harry (or Harry, Duke of Sussex)

- B. The term “Megxit,” a reference to “Brexit,” was coined by this tabloid newspaper, which launched a Sunday edition in 2012 after the fallout from the *News of the World* phone hacking scandal.

answer: The Sun (accept The Sun on Sunday)

- C. In October 2020 Harry and Meghan founded this non-profit organization based in Beverly Hills to replace the now-defunct Sussex Royal Foundation.

answer: Archewell [ARCH-well]

<535715>

13. **A 2021 special episode of this TV show featured the host of the podcast *Uncomfortable Conversations with a Black Man*, Emmanuel Acho. The first Latino star of this show was the Venezuelan soccer player Juan Pablo Galavis** [gah-lah-VEECE]. **The host of this show and its spinoffs (*) stepped down in 2021 after defending Rachael Kirkconnell for attending an antebellum plantation-themed ball. Chris Harrison once hosted—for 10 points—what reality show, in which a man presents roses to potential love interests?**

answer: The Bachelor (do not accept or prompt on “The Bachelorette”)

<515508>

13. Actor Steve Martin, who plays this instrument, created an annual prize for players of it, whose past recipients include Danny Barnes and Rhiannon Giddens. For 10 points each—

A. Name this circular-bodied string instrument used in bluegrass music.

answer: banjo(s)

B. The prize’s 2019 winner, Victor Furtado [fur-TAH-doh], plays this rhythmic banjo style that, unlike the Scruggs and other styles, relies primarily on downpicking.

answer: clawhammer banjo (accept framing or frailing or banging or thrashing or thumb-cocking)

C. When Furtado was twelve, he was invited to perform with Mike Snider at this weekly country music concert based in Nashville.

answer: Grand Ole Opry (prompt on “Opry”) [Furtado was 19 when he won the prize.]

<513004>

14. **In this city, Lala Levy is criticized by her mother for putting a star on top of a Jewish Christmas tree in the play *The Last Night of Ballyhoo*. In a novel, a man bids 150 dollars for a dance with a widow during a ball in this city. Alfred Uhry wrote a trilogy of plays named for this city, including (*) *Driving Miss Daisy*. This city is where Scarlett finds Rhett Butler in jail in part four of *Gone with the Wind*. Margaret Mitchell was born in—for 10 points—what large city in Georgia?**

answer: Atlanta, Georgia

<514582>

14. For 10 points each—answer the following about 2018 Broadway revivals centered on gay characters:

A. In 2018 a revival-record eleven Tony nominations were received by what two-part “Gay Fantasia on National Themes” by Tony Kushner?

answer: Angels in America(: A Gay Fantasia on National Themes)

B. An all-gay cast appeared in a revival of a pioneering Mart Crowley play titled for the “boys” in one of these groups. This kind of group is mentioned in the title of a history of the AIDS crisis by Randy Shilts.

answer: bands (accept The Boys in the Band or And the Band Played On)

C. For a 2018 revival, Harvey Fierstein [“fire”-steen] created an updated version of this Tony-winning set of plays, which premiered in 1982.

answer: Torch Song Trilogy

<503931>

15. **The capital of this country contains a monument to a 1763 slave revolt led by an Akan [ah-KAHN] man known as Cuffy. In 1997 this country’s presidency was assumed by a U.S.-born woman named Janet, the widow of left-wing president Cheddi Jagan** [CHEH-dee JAG-un]. **This country’s historical (*) sugar-producing regions of Berbice [bur-BEES] and Demerara [dem-uh-RAH-ruh] are home to many descendants of Indian indentured laborers. In 1978 over 900 members of the Peoples Temple died at Jonestown in—for 10 points—what English-speaking country in South America?**

answer: Guyana [“guy”-AN-uh] (or Cooperative Republic of Guyana)

<527094>

15. This relationship can be measured with Spearman's rho. For 10 points each—

A. Name this relationship that, according to an adage, does not imply causation.

answer: correlation (accept linear correlation or rank correlation or correlation does not imply causation)

B. Spearman's rho is a statistic described by this word because no assumptions are made about the joint distribution of the two variables. Statistical tests described by this thirteen-letter word are also called distribution free tests.

answer: nonparametric (accept nonparametric statistic or nonparametric tests)

C. Unlike Pearson's *r*, Spearman's rho is able to discriminate between the data sets in this English statistician's "quartet" designed to demonstrate the limitations of summary statistics.

answer: Frank Anscombe (or Francis John Anscombe)

<553105>

16. A "fiscal" version of this system was developed by Wallace Oates. A report by Morton Grodzins contrasts "layer cake" and "marble cake" models of this system, corresponding to conceptions of it as "dual" or "cooperative." The phrase "ambition must be made to (*) counteract ambition" is from a set of essays named for this system that also analyze how to stop the emergence of "factions." Power is split between national and local governments in—for 10 points—what system that titles 85 pro-Constitution "papers"?

answer: federalism (or federalist system or federal system or federalists; accept fiscal or layer-cake or marble-cake or dual or cooperative federalism; accept The Federalist Papers)

<545792>

16. The Tuva Republic lies at the border between these two countries. For 10 points each—

A. Name these *two* countries. The Selenga River originates in one of them before flowing north into Lake Baikal in the other.

answer: Russia (or Russian Federation or Rossiya or Rossiyskaya Federatsiya)
Mongolia (or Mongol Uls)

B. Tuva's cultural touchstones include khöömei [koo-may], a technique of this type of singing. Its varieties include the whistle-like *sygyt* [suh-guht] and the ultra-deep *kargyraa* [kar-guh-rah].

answer: throat singing (accept overtone singing or chanting or harmonic singing)

C. An international festival of throat singing is held every other year in this capital of Tuva.

answer: Kyzyl [KIZ-ul] (or Kizil)

<545424>

17. **Glaciers can limit this quantity's maximum value through denudation** [DEE-new-DAY-shun] **under the "buzzsaw hypothesis."** **Paleoclimates can be reconstructed by measuring the "equilibrium line" form of this quantity, which separates the accumulation zone from the ablation** [uh-BLAY-shun] **zone. "Digital (this quantity) models" are generated by GIS** ["G-I-S"] **tools. The reference geoid** [JEE-oyd] **has a value of (*) zero for this quantity whose contours appear on topographical maps. For 10 points—what quantity names a "sickness" experienced by mountain climbers?**

answer: elevation (accept altitude or height; accept digital elevation model; prompt on "length" or "distance")

<544904>

17. This monarch shaved and broke a beard vow, leading Louise of Savoy to observe that kingly bonhomie [bon-oh-mee] lay "not in the beards but in the hearts." For 10 points each—

A. According to Robert III de la Marck [roh-bair "the third" deh la "mark"], what king became upset after losing a wrestling match at a sumptuous 1520 diplomatic summit?

answer: Henry VIII ["the eighth"] of England (prompt on "Henry")

B. The beard kerfuffle at the Field of the Cloth of Gold was resolved when Thomas Boleyn blamed the shaving on this woman, Henry's first wife, who was from Aragon.

answer: Catherine of Aragon (or Catalina de Aragón)

C. Catherine entreated Henry to spurn an alliance with Francis in favor of Charles V ["the fifth"], who had been elected Holy Roman Emperor over both men on the strength of bribes and his sister's marriage to this king of Bohemia.

answer: Louis II (of Hungary) (accept Ludvik II or Ludovik II or Lajos II; prompt on "Louis" or "Lud(o)vik" or "Lajos")

<462597>

18. **This character has a dream in which three birds arrive with beaks full of honey and leave with beaks full of blood. This figure, who died after jumping out of a chariot, was raised in seclusion by the wise woman Leabharcham [LEV-ur-KUM] on the orders of a man who ignored a prophecy from (*) Cathbad [KAHTH-vahd]. J. M. Synge died before finishing a play titled for this woman, who eloped with Naoise [NEE-shuh], enraging Conchobar mac Nessa [KON-nur mak NESS-uh]. For 10 points—name this Irish woman whose tragic fate earned her the epithet “of the Sorrows.”**

answer: Deirdre [DEER-druh] (or Derdriu; accept Deirdre of the Sorrows)

<553515>

18. For 10 points each—answer the following about the early years of the Associated Press Athlete of the Year award:
- A. The first male winner was Pepper Martin, who like Dizzy Dean was one of the players Branch Rickey assembled to play for this National League franchise’s 1930s “Gashouse Gang” teams.

answer: St. Louis Cardinals (accept either underlined portion; accept Cards)

- B. Both the first male and female repeat winners, Don Budge and Alice Marble, were selected for their accomplishments in this sport, also played by later winners Chris Evert [EV-urt] and Serena Williams.

answer: tennis (accept tennis players)

- C. The first male golfer to win the award was this Italian-American. His win at the 1935 Masters made him the first player to win a career grand slam consisting of all four modern professional majors.

answer: Gene Sarazen [SAIR-uh-zen] (or Eugenio Saraceni)

<513284>

19. **This city was not along major trade routes according to a “revisionist” 1987 book by Patricia Crone. A term that either means “memorable,” or signifies literal suspension in this city, identifies seven “hanging poems.” This city, which swelled with migrants after the collapse of the Marib dam, was invaded by (*) Himyarite [HIM-yuh-rite] general Abraha [ah-BRAH-hah] in a campaign to destroy its religious center with elephants. During the “age of ignorance,” pagan idols were arrayed in—for 10 points—what Arabian trading city’s Kaaba [KAH-bah]?**

answer: Mecca (or Makkah)

<553303>

19. Jonathan Schaffer’s paper “On What Grounds What” notes that people who make claims about grounding often “retreat to” claims about this relation. For 10 points each—

- A. According to the *Stanford Encyclopedia*, property *A* has what relation to property *B* if “there cannot be an *A* difference without a *B* difference”?

answer: supervenience [“super”-VEEN-ee-entz] (accept strong or weak supervenience; accept answers indicating forms of the word supervene such as supervening)

- B. Dispute exists about whether supervenience avoids or entails this process, which explains complex phenomena, such as consciousness, in terms of “lower level” phenomena, such as physical activity in the brain.

answer: reduction (accept reducing or reductionism or reductionist(s); accept strong or weak reductionism)

- C. David Lewis named a type of supervenience after this Scottish author of *An Enquiry Concerning Human Understanding*.

answer: David Hume (or David Home; accept Humean supervenience)

<544932>

20. **A member of this group says “hello void, long time watcher, first time callin’ in” in a song whose chorus features Mavis Staples declaring “there’s a grenade in my heart.” The line “look at all these slave masters posin’ on your dollar” is repeated on this group’s 2020 song “JU\$T” [“just”]. The (*) *Black Panther* trailer featured this group’s 2016 song “Legend Has It.” The “pistol and fist” hand gesture appears on the cover of all four self-titled albums by—for 10 points—what hip-hop duo made up of El-P [“L-P”] and Killer Mike?**

answer: Run the Jewels (or RTJ) [The song described in the first sentence is “Pulling the Pin.”]

<553917>

20. These objects correspond to terminals in a programming language's context-free grammar. For 10 points each—
- A. Name these objects that a scanner or lexer ["lex-er"] generates by matching regular expressions to strings in an input file.

answer: tokens (or lexemes)

- B. These programs build abstract syntax trees, or ASTs, from input tokens. These subprograms of compilers are classified by whether they build the AST from the top-down or from the bottom-up.

answer: parsers

- C. Source code is compiled to bytecode, which is then interpreted in the standard C implementation of this programming language whose name derives from a British comedy group.

answer: Python (accept CPython; do not accept or prompt on "Monty Python")

<553414>

21. **In *Romance of the Three Kingdoms*, Zuo Ci [z'woh tsih] magically serves Cao Cao [tsao tsao] some of these animals from 500 miles away. Four of them chant a couplet beginning "come back and so will I!" after a girl bursts through a wall and pokes them with a rod. In *The (*) Recognition of Shakuntala*, Dushyanta's [doosh-YAHNT-uhs] ring is found in one of these animals. A man who makes his living from these animals discovers a jinni in a pot in a tale from the *Arabian Nights* that depicts—for 10 points—what animals being caught in a magic pond?**

answer: fish (accept River Song perch; accept carp)

<485805>

21. Tertullian suggested that this term could refer to some form of ear or head pain. For 10 points each—

- A. Give the term from the King James Bible used to name an ailment in a New Testament book. After asking God to remove this thing, the man suffering from it is told "my grace is sufficient for thee."

answer: thorn in the flesh (or Paul's thorn)

- B. Paul describes his thorn in his second epistle to these people. Paul's first epistle to them says that "love is patient, love is kind; it does not envy."

answer: Corinthians (accept First Corinthians or Second Corinthians or First Epistle to the Corinthians or Second Epistle to the Corinthians)

- C. Paul's thorn may have been a lingering form of this condition, which Paul briefly suffers in Acts of the Apostles. Jesus heals Bartimaeus of this condition in Jericho.

answer: blindness

<493111>

22. **This state was the longtime home of Richard Kuklinski [kuh-KLIN-ski], whose family had no idea he was a contract killer known as "the Iceman." A 1916 barge explosion caused by German sabotage occurred on this state's Black Tom island. This state's police superintendent, Norman Schwarzkopf Sr., investigated the (*) "Crime of the Century," in which Bruno Hauptmann broke into a home in this state to kidnap Charles Lindbergh's baby. For 10 points—in what state was Alexander Hamilton killed in a duel with Aaron Burr?**

answer: New Jersey (accept NJ ["N-J"])

<474059>

22. When Paris's Palais Garnier [pah-lay garn-YAY] held its inaugural concert in 1875, Gabrielle Krauss played the title character of an opera by this composer. For 10 points each—

- A. Name this composer whose 1835 grand opera *La Juive* [lah zhweev] is known in English as *The Jewess*.

answer: Fromental Halévy [hah-lay-VEE] (or Jacques-François-Fromental-Élie Halévy)

- B. This tenor performer's final role was as Eléazar [el-ee-ah-sar] in Halévy's *La Juive*. His 1903 RCA Victor recording of the aria "Vesti la giubba" was the first-ever record to sell a million copies.

answer: Enrico Caruso

- C. Halévy's nephew Ludovic [loo-doh-veek] was the librettist for this composer's comic operas *La Belle Hélène* [lah bel ay-LEN] and *Orpheus in the Underworld*.

answer: Jacques Offenbach (or Jacob Offenbach)

<534205>

23. **This structure forms in a namesake gland after a process called “plumping.” Its formation begins around the red isthmus, forming cone-shaped mammillary knobs, the palisade layer, and the crystal layer. The medullary bone serves as a reservoir for the formation of these structures. Protoporphyrin** ^["proto-POUR-fur-in"] **is deposited in (*)** brown examples of these structures, which calcify over a 20-hour period in the uterus of the left oviduct. Hatchlings use a namesake tooth to crack—for 10 points—what hard coverings?

answer: eggshell(s) (accept answers indicating shells of eggs; prompt on “egg(s)” or “shell(s)”) <50325>

23. For 10 points each—answer the following about the career of Illinois senator Paul Douglas:

A. In the 1930s Douglas lobbied for the “Chicago plan” to severely restrict the multiplying activities of these institutions, including banning their “fractional reserve” structure.

answer: (lending) banks (accept savings and loans or savings banks)

B. Interpretations differ on why Douglas presented a pitcher of orange juice during this 1957 event, which began on August 28 and lasted just over 24 hours.

answer: Strom Thurmond’s filibuster of the Civil Rights Act of 1957 (prompt on “filibuster”; accept James Strom Thurmond Sr. in place of “Strom Thurmond”)

C. While a professor of economics at Amherst in 1928, Douglas co-authored an article with this fellow economist on the production of output by two inputs, such as capital and labor.

answer: Charles (Wiggins) Cobb <511306>

24. **In an argument in her room, this character vengefully tells her sister that she could never go back to a man “who has cared for another woman.” This character becomes suddenly pious while on a spa trip in Germany, until she learns that Madame Stahl is faking her leg illness. This woman writes (*)** initials in chalk to communicate with a suitor, whom she had earlier rejected because she expected Vronsky to propose. Dolly is the sister of—for 10 points—what woman who marries Levin ^[LEH-vin] in *Anna Karenina* ^[AH-nuh kah-REH-nih-nuh]?

answer: Kitty Shcherbatsky (or Kitty Levin; or Ekaterina Alexandrovna Shcherbatskaya; prompt on “Shcherbatsky” or “Shcherbatskaya”; prompt on “Levin” before “Levin”) <518280>

24. This poem relates how the sky became “like a casque of scorching steel” after the speaker hears the whispered line “that fellow’s got to swing.” For 10 points each—

A. Name this 1897 poem that narrates the hanging of Charles Thomas Wooldridge. It notes “outcasts always mourn” and asserts that “each man kills the thing he loves.”

answer: The Ballad of Reading Gaol ^["redding jail"]

B. This flamboyant Irish author wrote “The Ballad of Reading Gaol” after the end of his two-year prison sentence for “gross indecency.”

answer: Oscar Wilde ^["wild"] (or Oscar Fingal O’Flahertie Wills Wilde)

C. After prison, Wilde took the alias “Sebastian Melmoth” in reference to *Melmoth the Wanderer*, a Gothic novel by this other Irish author, Wilde’s great-uncle.

answer: Charles (Robert) Maturin <462018>