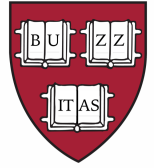


Harvard Fall Tournament XIII

Edited by Jon Suh with assistance from Raynor Kuang, Jakob Myers, and Michael Yue

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Round 3

Tossups

1. **France banned this good in 1748 under the belief that it caused leprosy, a measure that was overturned through the efforts of Antoine Parmentier [“par-MEN-tee-ay”]. Frederick the Great was known as the “king” of this good for encouraging its cultivation. This good gives the alternate name of the War of the Bavarian Succession. The (*) “Lumper” variety of this good suffered a disaster that caused many people to practice “souperism” or flee in vessels known as “coffin ships.” A blight of this good decreased the population of a European nation by 25%. For 10 points, name this foodstuff that suffered the Great Famine of the 1840s in Ireland.**

ANSWER: potatoes <Suh>

2. **An actress was able to commit to this show after the cancellation of the sitcom *Muddling Through*. A “shag” worn by a character on this show’s second season is one of the most copied women’s hairstyles of all time. Characters on this show often observe an “Ugly Naked Guy.” A character on this show is called a (*) “lobster” by a woman who wrote the song “Smelly Cat.” A character on this show continually justifies his infidelity by saying “We were on a break!” For 10 points, name this television series with the theme song “I’ll be There for You” about six companions, including Ross and Rachel, who often hang out at the Central Perk cafe in New York City.**

ANSWER: Friends <Suh>

3. **In a scene from this novel, a disgraced poet hides in a maze-like brothel, where he is collectively “married” by all the prostitutes. In a section of this novel, a man from Titlipur follows his sick wife in a Mercedes as she walks with a crowd led by a woman covered in butterflies until the crowd walks directly into the (*) Arabian Sea. This novel follows Ayesha, Mahound, a Bollywood actor and a voiceover artist, and a story about a trio of pagan goddesses. Gibreel Farishta and Saladin Chamcha survive a plane explosion over the English Channel in this novel. For 10 points, name this novel by Salman Rushdie which resulted in a fatwa being issued against him.**

ANSWER: The Satanic Verses <Cohen>

4. **A collection of this composer’s pieces was recorded in a “Pilgrimage,” some of which were transcribed by Johann Schübler. Four “Christmas interpolations” extend a work by this composer who set Luther’s “Ein Feste Burg” in another work. A work by this composer of a D-major *Magnificat* contains a “Crucifixus” in its “Symbolum Nicenum,” and that work by this composer of the (*) *Easter, Ascension, and Christmas* oratorios is named for its key of B minor. For 10 points, name this composer of a Mass in B minor and over 200 cantatas numbered by the BWV catalogue, one of which contains “Jesu, Joy of Man’s Desiring.”**

ANSWER: Johann Sebastian Bach (prompt on Bach) <Minton>

5. A monk from this country achieved “sudden enlightenment” after hearing the *Diamond Sutra*. A servant in this country has to flee a monastery after winning a poetry contest against the most popular disciple at the monastery, as related in the *Platform Sutra*. Huineng [“HWAY-nung”] was the sixth Patriarch of a (*) religious sect in this country, a lineage that started when Bodhidharma [“bo-dee-DAR-mah”] started the Chan school in this country. A monk in this country supposedly spent nine years facing a wall and started the physical training of his disciples that became a form of martial arts. For 10 points, name this country that is home to the Shaolin Temple.
ANSWER: China (or Zhongguo) <Suh>

6. The Brookings Institute outlined this program’s details in a 20-page report compiled at the request of Senator Arthur Vandenberg. This program overrode an earlier plan proposed by the Secretary of Treasury Henry Morgenthau. This initiative was announced in a Harvard commencement speech given by its namesake. The (*) Soviet Union and the Eastern Bloc rejected this program and instead developed the Molotov Plan. By 1951, almost \$13 billion were spent on this program, the largest beneficiary of which was the United Kingdom. For 10 points, name this American economic aid program to Western Europe following World War II.
ANSWER: Marshall Plan (or European Recovery Program; or ERP; do NOT accept or prompt on “European Economic Recovery Program,” which is a completely different initiative) <Suh>

7. Late stages of this disease can cause Argyll Robertson pupils. The first chemical compound specifically developed to treat a disease, an arsenic-containing “magic bullet” called Salvarsan, was developed by Paul Ehrlich to treat this disease. The secondary form of this disease causes a (*) “copper penny” rash on the hands and feet. This disease, caused by *Treponema pallidum*, typically begins as a painless chancre [“SHANG-ker”] on the genitalia. African-American sharecroppers in the Tuskegee experiment were unknowingly denied treatment of, for 10 points, which sexually transmitted infection that can cause patients to go insane?
ANSWER: syphilis (accept word forms; accept answer indicating infection with *Treponema pallidum* before mention) <Chu>

8. In the *Grímnismál* [“greem-NEES-mall”], before Odin calls Skidbladnir [“skith-BLATH-neer”] the best of boats, and Sleipnir the best of steeds, he first calls this thing the best of its kind. Because of the meaning of his name, the first man Ask is often associated with this thing, and four harts are often named as feeding near this thing. The wyrm (*) Nydhogg is described as gnawing on this thing that is also said to shiver at the start of Ragnarok. Mimir’s well is typically located in reference to this thing, and Odin hanged himself from this thing to understand runes. For 10 points, name this thing that connects the nine worlds in Norse myth, a giant tree.
ANSWER: Yggdrasil <Cohen>

9. A group of nobles who opposed this cause was known as the “Disinherited,” one of whom was Edward Balliol. The first war over this cause developed out of the succession crisis after Alexander III’s death. Blind Harry’s dramatic retelling of a victorious battle for this cause included the collapse of Stirling Bridge. One country entered into the (*) Auld Alliance with France for the sake of this cause. Robert the Bruce successfully fought the forces of Edward I and Edward II for this cause, while William Wallace died fighting for this cause. For 10 points, identify this effort to keep the northernmost member country of the United Kingdom a sovereign nation.
ANSWER: Scottish independence (accept any answer indicating keeping Scotland independent; accept Wars of Scottish Independence; prompt on Anglo-Scottish Wars; prompt on disputing the crown of Scotland) <Suh>

10. **An island in this body of water speaks an antiquated 17th century dialect of English. That island, Tangier Island, is at risk of being swamped by rising sea levels. The port of Havre de Grace is the northern end of this body of water, and this body of water's southern end is marked by the estuaries of the (*) Rappahannock River.** One state's eastern shore is formed by its coastline on this body of water. This bay, noted for its crab industry, receives rivers such as the Susquehanna, Potomac, and Delaware. For 10 points, name this bay that separates the Delmarva Peninsula from the remainder of Maryland and also borders Virginia.

ANSWER: Chesapeake Bay <Myers>

11. **A strange account tells of how a lion gently licked the founder of this empire while he was asleep. A ruler of this empire legendarily killed 99 of his brothers before taking the throne. This empire constructed the Barabar Caves. The Battle of Ipsus was probably decided by this empire's gift of 500 war elephants to (*) Seleucus I Nicator.** An advisor to the first two rulers of this empire wrote a treatise on statesmanship called the *Arthashastra*. After a ruler of this empire fought a bloody war to conquer Kalinga, he issued the Rock Edicts and converted to Buddhism. For 10 points, name this dynasty founded by Chandragupta and enlarged by Ashoka.

ANSWER: Mauryan Empire <Suh>

12. **This is the number of degrees of freedom of the Wilberforce pendulum, and Planck's constant is raised to this power in the Bohr radius. Potentials to this power receive $\frac{1}{2} k-b T$ in average energy by the equipartition theorem, and the spin quantum number has this many possible values. This is the number of connected pendulums needed for a (*) chaotic system and the maximum number of gravitating bodies whose motion can be generally solved.** This is the number of masses in a simple Atwood machine, and acceleration is this numbered time derivative of position. For 10 points, give this power to which velocity is raised in the formula for kinetic energy.

ANSWER: two (accept word forms like second) <Yue>

13. **One of this author's characters woos another while a man from Mannheim and Fraulein Engelhart are at the piano, and another reads Schopenhauer before dying from a rotten tooth extraction. One of his characters mentored by the poet Carducci duels a Jesuit, and Clavdia (*) Chauchats ["show-sha"] is another.** This author depicted a Lübeck merchant family in one novel, and described the debates of Naptha and Settembrini during Hans Castorp's stay at the Berghof sanatorium in another. For 10 points, name this German author of *Buddenbrooks* and *The Magic Mountain* who depicted Gustave von Aschenbach's obsession with Tadzio in *Death in Venice*.

ANSWER: Thomas Mann <Yue>

14. **A form of this technique commonly uses an iron-57 source and is described with the Lamb-Mössbauer ["MOSE-bow-er"] factor, and the McLafferty rearrangement can be observed in a form of this technique. Gold or silver surface plasmons are central to a "surface-enhanced" variant of this technique, another form of which is often paired with gas chromatography. Symmetric molecules are (*) "inactive" in one form of this technique, and Beer's law is used to measure absorbance in another.** One form of this technique has a "fingerprint" region below 1500 wavenumbers. For 10 points, name this general analytical technique with Raman, mass, and infrared variants.

ANSWER: spectroscopy (accept Mössbauer, UV/Vis, Raman or infrared spectroscopy; accept mass spectroscopy; accept spectrophotometry; be lenient and accept spectrometry) <Yue>

15. A consumer's utility is maximized at the point where a curve named after this word lies tangent to the consumer's indifference curve. All combination of goods that a consumer can purchase at any given income level is called this word's "constraint." This noun appears in the title of a (*) Congressional office that provides economic analysis of proposed legislations. Fiscal conservatives advocate for a balanced approach to creating these plans, which experienced several years of surplus under the Bill Clinton administration. For 10 points, identify these annual plans that lay out the revenues and costs of a household or government.

ANSWER: budgets (accept Congressional Budget Office; accept budget constraint; do NOT accept or prompt on "spending") <Suh>

16. This artist depicted himself as a child standing in front of his future wife, who grasps a yin-yang sign in her left hand, in a work that features various historical figures from his native country and a smiling skeleton with a floral hat. This artist portrayed a creation goddess as a stamping press in a 27-part work, and an (*) X-winged shape emanates from a man operating machinery in one of his paintings. This artist showed laborers at the River Rouge Plant in his *Detroit Industry Murals*, and his depiction of Vladimir Lenin led to *Man at the Crossroads* being removed from the Rockefeller Center. For 10 points, name this Mexican artist, the husband of Frida Kahlo.

ANSWER: Diego Rivera [Editor's note: the first clued work is *Dream of a Sunday Afternoon in the Alameda Central*.] <R. Li>

17. The speaker of one of this poet's poems "lost a world the other day," and this poet depicted "I and silence some strange race / Wrecked, solitary, here" in another poem. One of this poet's speakers "sign[s] away / What portion of me I / Could make assignable," and another sees "a house that seemed / a swelling of the ground." One of this poet's speakers (*) "could not see to see" after a hearing a "blue, uncertain, stumbling buzz," and another passes by schoolchildren in a "carriage [that] held but just ourselves / And Immortality" after the title figure "kindly stopped for [her]." For 10 points, name this American poet of "Because I could not stop for Death."

ANSWER: Emily Dickinson <Yue>

18. One construct named for this man represents an extension of the complex numbers with a value for infinity, which can permit division by zero in some cases. With Augustin Cauchy, this man names a pair of partial differential equations that can be used to determine if a complex function is holomorphic. In this man's only paper on number theory, he describes a function whose nontrivial (*) zeros he conjectures to all have real part one-half; those are his namesake "zeta function" and "hypothesis," respectively. For 10 points, name this mathematician who names a "sum" commonly used to approximate integrals.

ANSWER: Bernhard Riemann <R. Li>

19. A player of this instrument had a solo after Sonny Rollins' on the track "St. Thomas," and that musician made an album featuring "Parisian Thoroughfare" with Clifford Brown. According to Paul Desmond, "Take Five" was "supposed to be a solo [for this instrument]" performed by Joe Morello. Performances of "Sing, Sing, Sing" often featured solos on this instrument by (*) Gene Krupa. Art Blakey performed this instrument, as did another bandleader known for single-stroke rolls. Rudiments for this instrument might practice alternate sticking on a pad. For 10 points, name this instrument played by Max Roach and Buddy Rich using sticks and cymbals.

ANSWER: drums <Yue>

20. An essay notes that this character lacks “tiger spirit” and that his “feelings are caught chiefly by contagion.” This character “has no spur / To prick the sides of my intent” and later says he has “almost forgot the taste of fears” after hearing an offstage cry of women. This character is told to “screw [his] courage to the sticking-place” and later exclaims (*) “Out, out, brief candle!” in a monologue beginning, “tomorrow, and tomorrow, and tomorrow.” This character is told he will be killed by someone not “of woman born” by three witches after he murders King Duncan. For 10 points each, name this title King of Scotland of a Shakespeare tragedy.

ANSWER: Macbeth (do NOT accept “Lady Macbeth”) <Yue>

21. The death of a nine-year old resident of this city is described in the preface to Samantha Power’s *A Problem from Hell*. This city’s namesake “roses” are concrete patterns left from mortar shells that were later infused with red resin. NATO’s Operation Deliberate Force was a response to this city’s Markale [“mar-kah-lay”] massacres. The (*) Dayton Agreement ended a conflict during which this city withstood the longest siege of a capital city in modern history. A member of the Black Hand attempted suicide by jumping into a river in this city that was only 13 centimeters deep. For 10 points, name this city where Gavrilo Princip assassinated Archduke Franz Ferdinand.

ANSWER: Sarajevo <R. Li>

Bonuses

1. Famous baseball players who participated in this conflict included Bob Feller, Stan Musial, and Joe DiMaggio.

For 10 points each:

[10] The aforementioned Cleveland Indians pitcher Bob Feller volunteered for the Navy to serve in this conflict after the Attack on Pearl Harbor.

ANSWER: **World War II** (anti-prompt [ask for less specific] on Pacific War or other campaigns of the war)

[10] This Boston Red Sox outfielder and World War II veteran, nicknamed “The Kid,” was the last MLB player to bat over .400 [“four hundred”] in a season.

ANSWER: Ted **Williams**

[10] This other Red Sox player and World War II veteran later also managed the team twice and names the right field foul pole at Fenway Park.

ANSWER: Johnny **Pesky** (accept **Pesky**’s Pole or **Pesky** Pole) <Suh>

2. A man who resolved to die up to his “knees in blood” actually did die at this battle. For 10 points each:

[10] Identify this misnamed Revolutionary War battle where Joseph Warren died. Israel Putnam may have ordered his men not to fire at their enemy until they saw the “whites of their eyes.” The battle was a costly British victory.

ANSWER: Battle of **Bunker Hill** (prompt on Battle of Breed’s Hill)

[10] This other Pyrrhic British victory during the Revolutionary War pitted Nathanael Greene against General Charles Cornwallis. In its aftermath, one man exclaimed that “Another such victory would ruin the British Army!”

ANSWER: Battle of **Guilford Court House**

[10] The Confederates scored a Pyrrhic victory at the Battle of Chancellorsville because they lost this general, who was accidentally shot by friendly fire. He gained his nickname from his performance at the First Battle of Bull Run.

ANSWER: Thomas Joseph “Stonewall” **Jackson** <Suh>

3. Berlin and Kay posit that words for different types of this property are added to languages in a predictable order, and Chomsky wrote that ideas lacking this property “sleep furiously.” For 10 points each:

[10] Name this concept, examples of which include *rojo* [“ROH-ho”] in Spanish, *vert* [“vair”] in French, and “yellow” and “green” in English.

ANSWER: **colors**

[10] Homer’s use of the phrase “wine-dark” indicates that Ancient Greek may not have had a word for this color. Japanese considers both this “cool” color and green to be shades of *ao*.

ANSWER: **blue**

[10] In this psychological effect, people are slower to name the color of ink when it is used to write the term for a different color.

ANSWER: **Stroop** effect (or **Stroop** task) <Murton>

4. This character wonders if Bill Oliver thinks he stole a carton of basketballs. For 10 points each:

[10] Name this former high school football star who flunks senior year math after witnessing his father’s affair. His brother is Happy, and his mother is Linda.

ANSWER: **Biff** Loman (prompt on Loman)

[10] After experiencing delusions accompanied by flute music playing in the background, Biff’s father Willy commits suicide at the end of this 1949 Arthur Miller play.

ANSWER: **Death of a Salesman**

[10] During his affair with The Woman, Willy gave her some of these articles of clothing as gifts. Willy also asks his wife Linda to stop mending some of these objects.

ANSWER: nylon **stockings** (or **nylons**; prompt on socks) <Suh>

5. Richard Wagner sent Berlioz a score of *Tristan und Isolde* touting him as “the great author of” this programmatic work. For 10 points each:

[10] Name this Berlioz *symphonie dramatique* containing a famous scherzo [“SKAIRT-zoe”] to the queen of dreams. A Charles Gounod opera that’s not *Faust* and a Tchaikovsky orchestral work with a “love theme” share their names with this work.

ANSWER: **Romeo and Juliet** (accept **Romeo et Juliette**)

[10] This composer included a “Dance of the Knights” in his ballet *Romeo and Juliet*, later arranged as “Montagues and Capulets” in its second suite. His other ballets include *The Steel Step* and *Cinderella*.

ANSWER: Sergei **Prokofiev**

[10] Although it is really more of a symphonic poem, Tchaikovsky called his *Romeo and Juliet* a work in this genre. His other works in this orchestral genre include one written to commemorate Napoleon’s failed invasion of 1812.

ANSWER: concert **overture** (accept fantasy **overture** or **overture**-fantasy) <Yue>

6. For 10 points each, answer some questions about a pioneer in nuclear chemistry.

[10] This scientist was the first person to win two Nobel Prizes, the first in conjunction with Henri Becquerel and her husband Pierre for their research on radioactivity.

ANSWER: Marie **Curie** (or Maria Salomea **Sklodowska**)

[10] Curie received her second Nobel Prize for discovering two new elements and describing their properties. Name either of these elements.

ANSWER: **radium** OR **polonium**

[10] To isolate radium from pitchblende, Curie used the fractional form of this technique which exploits the different solubilities of the chloride salts of radium and barium. In general, this technique allows one to precipitate and remove specific compounds from a solution.

ANSWER: **recrystallization** (accept **differential crystallization**; accept **fractional crystallization**) <K. Li>

7. For 10 points each, answer the following about Greek myth figures who were seemingly invincible.

[10] This Greek warrior was nearly invincible save for his heel, which ended up being his downfall.

ANSWER: **Achilles**

[10] The giant Alcyoneus remained invincible as long as he remained in his hometown, so this man killed him by shooting him with an arrow and then dragging him out of his homeland. This man’s venom-tipped arrows also caused Chiron great pain.

ANSWER: **Heracles** (begrudgingly accept **Hercules**)

[10] This son of Gaia was invincible as long as he was touching the earth. Heracles killed him by lifting him up from the ground and then strangling him in a bear hug.

ANSWER: **Antaeus** <Suh>

8. This author compared “faces... in the crowd” to “petals on a wet, black bough” in a poem he described as an “equation.” For 10 points each:

[10] Name this Imagist author of the fourteen-word poem “In a Station of the Metro” as well as *Hugh Selwyn Mauberley* and his unfinished poem *The Cantos*.

ANSWER: Ezra **Pound**

[10] Pound wrote “In a Station of the Metro” during his expatriate years in Paris, when he famously hung out with this author of *The Sun Also Rises* and *The Old Man and the Sea*.

ANSWER: Ernest **Hemingway**

[10] Pound’s *Hugh Selwyn Mauberley* opens by describing the title character’s yearning “to resuscitate the dead art” of this activity. In an elegy for W. B. Yeats [“yates”], Auden claims that this activity “makes nothing happen.”

ANSWER: **poetry** <R. Li>

9. Damien Hirst collected several photographs of people with this relationship posing in front of his “spot paintings” in a 1992 exhibition. For 10 points each:

[10] Give this relationship between two people. Though often portrayed with the painting *The Cholmondeley Ladies*, a difference in eye color reveals the ladies do not possess the “identical” form of this relationship.

ANSWER: **twins**

[10] This photographer captured two twin girls in black dresses in Roselle, New Jersey. She also photographed a boy holding a grenade in a picture showing the left strap to that boy’s shorts falling off his shoulder.

ANSWER: Diane **Arbus**

[10] The Arbus twins photograph likely inspired a scene in Kubrick’s *The Shining* in which a low Steadicam follows Danny as he performs this action before encountering the ghosts of two twin girls exhorting him to “play with us.”

ANSWER: **riding a tricycle** (prompt on partial answer; accept obvious equivalents; leniently accept **bicycle** and equivalents in place of tricycle/trike) <Kuang>

10. Structures known as “peace walls” or “peace lines” can be found in this region. For 10 points each:

[10] Name this westernmost member country of the United Kingdom whose capital, Belfast, was known as “Linenopolis” in the early 1800s because it was the world’s largest linen producer. Do not confuse the answer with a non-directionally named neighbor whose capital is Dublin.

ANSWER: **Northern Ireland** (do NOT accept or prompt on “Ireland”)

[10] Northern Ireland and Ireland engaged in this low-level guerrilla conflict for most of the late 20th century, which is often considered to have ended with the 1998 Good Friday Agreement.

ANSWER: the **Troubles**

[10] This Provisional Irish Republican Army member died in 1981 while on a hunger strike after being imprisoned for firearms possession.

ANSWER: Robert Gerard “Bobby” **Sands** <Suh>

11. Before miraculously producing this substance, a man told his mother that his “hour has not yet come.” For 10 points each:

[10] Name this grape-based drink that is used to represent the blood of Christ during the Holy Communion.

ANSWER: **wine**

[10] Jesus’ first recorded miracle happened at one of these events in Cana, where he turned water into wine.

ANSWER: **wedding** (or **marriage**)

[10] Because this young preacher had a lot of health issues, Paul advised him to “no longer drink only water, but use a little wine.” This first Bishop of Ephesus was stoned to death while trying to stop a procession honoring Diana.

ANSWER: **Timothy** <Suh>

12. Pierre Bergé was the longtime partner of this man, whose company sold many jewelry pieces designed by Loulou de la Falaise. For 10 points each:

[10] Name this French fashion designer who popularized ready-to-wear fashion and created one of the first pantsuits for women, called Le Smoking.

ANSWER: Yves [“eeves”] **Saint-Laurent** (or Yves Henri Donat Mathieu-**Saint-Laurent**; prompt on **YSL**)

[10] More specifically, Le Smoking is one of these fancy suits, typically worn to “black tie” events. These suits usually feature peak or shawl collar lapels made out of satin.

ANSWER: **tuxedos** (or **dinner suits** or **dinner jackets**)

[10] Saint-Laurent garnered acclaim for his design of a line of dresses named for this artist. This man partnered with Theo van Doesburg to found the movement De Stijl, which emphasized abstraction and perpendicular straight lines.

ANSWER: Piet **Mondrian** (or Pieter Cornelis **Mondrian**; accept **Mondrian** Collection) <Chu>

13. Though Harvard memorabilia is often maroon, the school's color is actually Crimson, a shade of red. For 10 points each, answer some questions about the color red:

[10] The process of producing this metal's oxide leaves behind red mud, a highly alkaline waste product filled with iron. This element is found in a powerful reagent that can reduce carboxylic acids to alcohols.

ANSWER: **aluminum**

[10] A red ribbon is the symbol for a disease caused by this retrovirus, which leads to AIDS.

ANSWER: **human immunodeficiency virus** (or **HIV**)

[10] The MBTA Red Line, which runs through Harvard Square, is powered by a third rail running with this type of current which carries a constant voltage. The high voltage variety of this type of current is highly effective at transmitting power over long distances.

ANSWER: **direct** current (or **DC**) <K. Li>

14. This road was originally called Uttara Path, which means "road to the North." For 10 points each:

[10] Name this road that links Chittagong, Bangladesh to Kabul, Afghanistan. This road has existed for at least two millennia, and records indicate the existence of this road during the Mauryan Empire.

ANSWER: **Grand Trunk** Road (prompt on **GT** Road)

[10] The Grand Trunk Road was significantly upgraded in the 18th century during this period of Indian history of direct British Crown rule that began after the failure of the Sepoy Mutiny. We are looking for a three-letter word that literally means "rule" in Hindustani.

ANSWER: British **Raj**

[10] The Grand Trunk Road runs through this major Indian city, the "New" one of which is the capital of India.

ANSWER: **Delhi** (do NOT accept or prompt on "New Delhi") <Suh>

15. Scottish surgeon Joseph Bell is frequently cited as a real-life inspiration for this character. For 10 points each:

[10] Name this detective who lives at 221B Baker Street and who, despite popular belief, never actually says the phrase "Elementary, my dear Watson!"

ANSWER: **Sherlock Holmes** (accept either)

[10] In "The Adventure of the Six Napoleons," Holmes deduces that an Italian worker named Beppo hid one of these objects in the title plaster busts. A goose belonging to Henry Baker is found to contain one of these objects in another Holmes story titled for a "blue" one of them.

ANSWER: **gemstones** (accept obvious equivalents; prompt on the Blue **Carbuncle** with "What kind of object is that?"; prompt on **pearl** or **diamond**)

[10] In this author's *The Moonstone*, Colonel Herncastle wills the title Indian diamond to his niece Rachel, but it is stolen on the night of her birthday. That work by this author is widely regarded as the first detective novel.

ANSWER: Wilkie **Collins** <R. Li>

16. For 10 points each, answer some questions about the central dogma of biology.

[10] This process, performed by ribosomes, turns mRNA into protein and follows transcription.

ANSWER: **translation**

[10] These mRNA sequences signal an end to peptide production. They normally come in amber, ochre, and opal varieties, and a mnemonic to remember their sequences is "U Are Annoying, U Are Gross, U Go Away."

ANSWER: **stop codon** (prompt on **codon**)

[10] These proteins assist in protein folding by providing a compact and sheltered environment in which proteins can properly assume their tertiary structure.

ANSWER: molecular **chaperone** (accept **chaperonin**) <K. Li>

17. Matt Damon lampooned this man on SNL by describing him as “a keg half full kind of guy.” For 10 points each:
[10] Name this newest Supreme Court Justice whose nomination was nearly derailed by allegations of sexual assault from Dr. Christine Blasey Ford, Deborah Ramirez, and other women.

ANSWER: Brett **Kavanaugh**

[10] After this Senator’s vote in favor of Kavanaugh, former UN Ambassador Susan Rice tweeted that she would be open to challenging this Senator in 2020. This Maine Senator broke with her party to vote against Obamacare repeal in 2017.

ANSWER: Susan **Collins**

[10] Before his ascent to the Supreme Court, Kavanaugh served on a federal appellate court based in this city. Despite Kavanaugh’s dissent, that court upheld the constitutionality of a semiautomatic rifle ban in a “sequel” to a Supreme Court case named for *[this city] v. Heller*.

ANSWER: **Washington, D.C.** (accept either underlined portion, as well as **District of Columbia** in place of “D.C.”) <R. Li>

18. According to Arrian, this man massacred 8,000 of a city’s inhabitants after being enraged at the loss of his men caused by the city’s stout defenses. For 10 points each:

[10] Name this victorious military commander at the Battle of Issus who built a causeway to capture the city of Tyre.

ANSWER: **Alexander** the Great (or **Alexander III** of Macedon)

[10] Tyre was a stronghold of these seafaring people who founded Carthage. These people also invented the alphabet and traded a very profitable purple dye.

ANSWER: **Phoenicians**

[10] Another stronghold of the Phoenicians was this city located north of Tyre in present-day Lebanon. This center of glass manufacturing was a rival of Tyre, and the sarcophagus of Eshmunazar II was discovered here in 1855.

ANSWER: **Sidon** [“SYE-dun”] <Suh>

19. In a story from this collection, a policeman describes his dream of buried treasure to the protagonist, who realizes the location is his own house. For 10 points each:

[10] Name this collection of Middle Eastern stories narrated by Scheherazade to her husband King Shahyar to stop him from executing her. Sir Richard Burton created a notable translation of this collection.

ANSWER: **Arabian Nights** (accept **One Thousand and One Nights**, **One Thousand and One Arabian Nights**, or **Arabian Nights’ Entertainment**)

[10] *Arabian Nights* includes a description of this character’s seven voyages. On his fifth voyage, this character travels to the City of the Apes, whose residents are terrorized by man-eating simians every night.

ANSWER: **Sinbad** the Sailor

[10] Another story in *Arabian Nights* describes a man who murdered his wife after seeing a slave with one of these title objects. In a Robert Frost poem titled after one of these objects, the speaker recounts how he “held against the world of hoary grass.”

ANSWER: **apples** <R. Li>

20. For 10 points each, answer some questions about double Nobel laureate John Bardeen.

[10] Name this circuit component invented by Bardeen, for which he won his first Nobel prize. These semiconductor devices are found in integrated circuits and are often made out of silicon or germanium.

ANSWER: **transistors**

[10] Bardeen shared his second Nobel prize for the formulation of this theory that describes how Cooper pairs can condense at low temperatures such that they behave like a boson.

ANSWER: **BCS** theory (accept **Bardeen–Cooper–Schrieffer** theory)

[10] BCS theory is helpful in explaining the behavior of these materials. They expel magnetic fields in the Meissner effect, and liquid helium is often used as a coolant for them due to the helium's very low temperature.

ANSWER: **superconductors** (accept word forms; do NOT accept or prompt on just "conductor") <K. Li>

21. For 10 points each, answer the following about wealthy American businessmen who also did philanthropy.

[10] This co-founder of the Standard Oil Company is often considered to be the wealthiest American of all time. He also founded the University of Chicago and a namesake university in Manhattan.

ANSWER: John D. **Rockefeller** (accept **Rockefeller** University)

[10] This railroad magnate, nicknamed "Commodore," owned the New York Central Railroad and names a university in Nashville, Tennessee.

ANSWER: Cornelius **Vanderbilt** (accept **Vanderbilt** University)

[10] This financier served as the Secretary of Treasury under President Hoover, but resigned his post after he faced impeachment charges. His art collection established the National Gallery of Art.

ANSWER: Andrew **Mellon** <Suh>