Harvard Fall Tournament XIII
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Round 12

Tossups

1. **This statement can be used to prove the pumping lemma for regular languages by observing there must be a repeated state. This principle can be generalized to set theory to disprove the existence of injections whose domains are larger than their codomains. Hashing collisions are guaranteed under certain conditions by this statement. According to this principle, given at least 367 people, at least (*)** two of them will share a birthday. This statement says that given *m* items and *n* boxes, if *m* is greater than *n* then at least one box will have more than one item. For 10 points, give this "principle" named for a certain bird.
ANSWER: **pigeonhole** principle <R. Li>

2. **A G-minor work of this type begins with a melody consisting of interlocked thirds, and Anton Webern's Opus 27 is this type of work. The finale of Tchaikovsky's piano trio is of this type, as is his only work for cello and orchestra. The fourth movement of Schubert's *Trout Quintet* is a work of this type, as is a work that ends with a (*)** quodlibet and has a canon every three movements. Augustus J. Jaeger ["YAY-gur"] inspired a movement of another work of this type, with movements titled "Dorabella" and "Nimrod" that depict close friends of the composer. For 10 points, name this genre of Edward Elgar's "Enigma" and Bach's "Goldberg."
ANSWER: **variation**s (accept theme and **variation**s or aria and **variation**s; accept specific instrumentations of **variation**s) <Yue>

3. **Martin Luther claimed that the Biblical work of this name was "nothing of an evangelic kind." In Mark 3, Jesus gave John and a man with *this* name the surname "Boanerges" ["boh-uh-NUR-jeez"], meaning "sons of thunder." A man of this name was the first of the Twelve Apostles to be martyred. One man of this name, whom Paul referred to as the "brother of (*)** Jesus," is traditionally considered to be the author of the namesake New Testament book that says that "faith without deeds is dead." Jesus often took Peter, John, and an apostle of this name aside from the rest of the disciples. For 10 points, give this name of two of the Twelve Apostles, one of whom is known as "the Just."
ANSWER: **James** (accept Book of **James**; accept **James** the Just, **James**, son of Alphaeus, **James**, son of Zebedee, or **James** the Lesser) <Suh>

4. **A character in this novel criticizes her suitor for his lackluster reading of William Cowper ["COO-per"]. A character in this novel gives a horse named Queen Mab to his love interest, but later rejects her by returning a lock of hair she had given him. A character in this novel who marries Sophia Grey is disowned for seducing (*)** Eliza Williams. The main characters of this novel live with the Middletons after being evicted by Fanny. At the end of this novel, Edward Ferrars marries Elinor and Colonel Brandon marries Marianne, who was previously abandoned by John Willoughby. For 10 points, name the first novel by Jane Austen about the Dashwood sisters.
ANSWER: ***Sense and Sensibility*** <Suh>

5. **In 1991, Boston University found that this man plagiarized portions of his doctoral dissertation. This man criticized a group of clergy for trying to "set the parameters of another man's freedom" in an essay signed as "Yours for the cause of peace and brotherhood." Robert Kennedy's impromptu speech in Indianapolis following this man's (*)** death probably kept the city from rioting. Standing on the footsteps of the Lincoln Memorial, this man gave a speech envisioning his children being judged not by their color, but by "the content of their character." For 10 points, name this civil rights leader most known for his "I Have a Dream" speech.
ANSWER: Martin Luther **King** Jr. <Suh>

6. **The CAGE criteria are often used to screen for this disorder, which can be treated using the medications acamprosate and disulfiram. Administering glucose to thiamine-deficient sufferers of this disorder commonly precipitates Wernicke–Korsakoff syndrome. Smooth philtra and mental disability are characteristic in children born to (*)** mothers suffering from this disorder. Submitting to God and admitting one's powerlessness were two parts of of the original twelve-step program to treat this disorder, whose long-term consequences may include cirrhosis and other liver damage. For 10 points, name this disorder treated by groups like AA.
ANSWER: **alcohol use disorder** (or **alcoholism**; accept answers relating to **addiction** to or **abuse** of or the excessive use of **alcohol**; prompt on just addiction or substance use disorder by asking "what substance?") <Chu>

7. **Following one of these events, the Casa Pia children's education center was established. Trajan and Hadrian experienced one of these events in Antioch and suffered minor injuries. After one of these events, a city rallied around the phrase, "Bury the dead and heal the living." The aftermath of one of these events in 1923 saw the massacre of ethnic Koreans. That one of these events on the (*)** Kanto plain of Japan was exacerbated by the ensuing tsunami, a common consequence of these events. For 10 points, name this type of natural disaster that has often affected San Francisco due to the activity of the San Andreas fault.
ANSWER: **earthquake**s (accept any specific **earthquake**; prompt on tsunamis until mention) <Suh>

8. **In this place, the narrator of a novel recognizes a man selling dancing dolls in the street, and earlier an employer in this area shows the narrator Dr. Bledsoe's letters. This setting of Nella Larsen's *Passing* is also the setting of a novel depicting Brother Elisha and other characters on John Grimes's fourteen birthday. The (*)** Brotherhood and Ras the Destroyer live here in a novel, and one of its former residents set his novel *Go Tell It on the Mountain* here, where author James Baldwin had met Countee Cullen. For 10 points, name this location home to Claude McKay that titles a poem about "a dream deferred" by Langston Hughes, a member of its "Renaissance."
ANSWER: **Harlem** (prompt on New York City or equivalents) <Yue>

9. **Euler** ["OY-ler"] **applied the Weierstrass factorization theorem to this function "over *x*" and equated it to its Taylor series to solve the Basel Problem. This function's hyperbolic function is located entirely in the first and third quadrants, and its Maclaurin series has no (*)** even terms. This function is equivalent to the y-component of e^{ix} ["e to the I-X"], and its limit over theta as theta goes to zero is one. This function is often defined as the y-coordinate of a point on the unit circle. For 10 points, name this trigonometric function, defined as the opposite over hypotenuse and often contrasted with cosine.
ANSWER: **sine** <Magee>

10. **A man of this name hired a Greek mercenary force in an effort to take over a country ruled by his brother, but instead lost his own life at the Battle of Cunaxa. The aftermath of that failed expedition was recorded in the *Anabasis* by Xenophon, who also wrote a mostly fictionalized biography of another man with this name. That other man with this name was referred to as the (*)** "Messiah" in the Jewish Bible and instituted the system of ruling through satraps after conquering the Medes ["meeds"], Lydians, and Babylonians. For 10 points, give this name shared by a few Persians, the most famous of whom founded the Persian Achaemenid Empire.
ANSWER: **Cyrus** (accept **Cyrus** the Younger; accept **Cyrus** the Great, **Cyrus** the Elder, or **Cyrus** II of Persia; prompt on *Cyropaedia*) <Suh>

11. **This author is tormented by three women playing piano and attempts to practice black magic on his own daughter in a pseudo-autobiographical novel. In a play by this author, a wheelchair-using character boasts that a "hyacinth girl" is his daughter before hanging himself; that character's name is Jacob Hummel. This author wrote a play whose title character ends a relationship when her betrothed declines to (*)** jump over a riding whip. In that play by this author of *The Ghost Sonata*, the valet Jean decapitates the title character's pet canary after they have an affair. For 10 points, name this Swedish author of *Miss Julie*.
ANSWER: August **Strindberg** <R. Li>

12. **This person argued in 2015 that carbon dioxide is not a pollutant because it is a "plant food" that "doesn't harm anybody." This person was accused of using the "awesome powers of his office in a shabby attempt to intimidate and frighten elderly black voters" in a letter written by (*)** Coretta Scott King that Elizabeth Warren attempted to read on the Senate floor. Controversy over this man's contacts with Sergey Kislyak led to his recusal from any investigations into Russian interference in the 2016 presidential election. For 10 points, name this former senator from Alabama who resigned as Attorney General the day after the 2018 midterm elections.
ANSWER: Jeff **Sessions** <R. Li/Myers>

13. **An artwork named for this concept was possibly supposed to be accompanied by *Pallas and the Centaur*. This concept titles an E major work opening with two repetitions of a theme consisting of three G sharps followed by "F sharp - E - B." This concept is referenced by the nickname of Robert (*)** Schumann's first symphony, a painting depicting Venus and the Three Graces standing in a forest grove by Botticelli, and the first of four violin concerti collected in *The Contest Between Harmony and Invention*. For 10 points, name this time of year which titles the first of Antonio Vivaldi's *The Four Seasons*.
ANSWER: **spring** (or ***primavera***) <Chu>

14. **This organization was opposed by a group calling themselves "equal sharers," or the Likedeelers ["LICK-uh-dee-lers"]. London's Cannon Street Station was once the site of a steelyard owned by this group. Albrecht von Mecklenburg hired the Victual Brothers to conduct raids against this group. The treaty of Stralsund was signed after this organization took Visby in a war against Valdemar IV of** (*) Denmark. This organization created outposts called *kontors*, and its capital was at Lübeck. For 10 points, name this medieval trade confederation located along the Baltic and North seas.
ANSWER: **Hanseatic** League (or **Hansa**) <Suh>

15. **He is not Elijah, but this man is supposed to have disappeared in a whirlwind during a storm. Some accounts indicate that this man employed a foreman named Celer, who was the namesake of this man's bodyguards. This man killed a rival who leapt over a wall to demonstrate how inept its defenses were. The (*)** Consualia festival was a ploy for this man's followers to take the Sabine women as wives. After being abandoned by their Vestal Virgin mother, this man and his brother were raised by a she-wolf. For 10 points, name this mythical founder of Rome who was the twin brother of Remus.
ANSWER: **Romulus** <Suh>

16. **Description acceptable. This figure is shown next to a white handprint and under the title number in Jasper Johns' *Figure 7*, and Andy Warhol's *Thirty Are Better Than One* contains 30 black-and-white reproductions of this figure. A small bridge over a winding river can be seen in the background of a painting of this figure. In a collaboration with Phillipe Halsman, Salvador Dalí superimposed his (*)** moustache onto this person, a work likely inspired by Marcel Duchamp's parody L.H.O.O.Q. This member of the Giocondo family can be seen resting her hands in an armchair in a 1503 portrait. For 10 points, describe this woman who smiles enigmatically in a da Vinci portrait.
ANSWER: ***Mona Lisa*** (or Lisa del **Giocondo** née **Gherardini**; accept *La* ***Gioconda*** before mention) <R. Li>

17. **A man of this profession describes a plan for an opera about Lord Byron to his daughter. Timofey Pnin and Abe Ravelstein are characters with this profession, and another visits America's most photographed barn. A man of this profession meets the "dog-man" Petrus, the neighbor of his daughter Lucy who is raped in Salem. (*)** *Disgrace*'s David Lurie has this profession, as does a man who tells his mother about the "most absorbing experiment I ever tackled." That character is approached by a "common flower girl" and is a friend of Colonel Pickering. For 10 points, give this profession of Henry Higgins, who teaches phonetics to Eliza Doolittle in *Pygmalion*.
ANSWER: **professor** (generously accept **educator**; accept **teacher** until "teaches phonetics"; prompt on linguist or writer or historian and reasonable equivalents by asking "What's the official job title of that person, not their area of expertise?") <Yue>

18. **The splitting energy for this geometry is four-ninths of octahedral's, and it has a three-over-two *d*-orbital splitting pattern. High-spin nickel complexes as well as all polyatomic ions in Mohr's salt have this geometry, which intermediates of additions to carbonyls exhibit as well. The anion in (*)** Epsom salt has this geometry, and the cosine of the bond angle for this geometry is equal to negative one-third. Saturated carbons with *sp3* [“s-p-three”] hybridization have this geometry, which has a bond angle of 109.5 degrees. For 10 points, give this geometry of methane resulting from the [*emphasize*] four H-groups attached to the central carbon.
ANSWER: **tetrahedral** <Yue>

19. **The main character of this work muses that "the world bores you when you're cool" and "life is full of surprises, but never when you need one." This strip's author succesfully negotiated for more space for its special Sunday strips, and has notably declined all (*)** marketing deals. Several arcs in this comic strip involve the conversion of a cardboard box into a sci-fi device. To annoy neighbor Susie Derkins, the main characters in this comic create a club called Get Rid of Slimy Girls, or GROSS. This comic's main characters are named after two European philosophers. For 10 points, name this Bill Watterson comic about a boy and his tiger.
ANSWER: ***Calvin and Hobbes*** <Huang>

20. **This man quoted Cicero to assert that while "the populace may be ignorant, it is capable of grasping the truth and readily yields when a man, worthy of confidence, lays the truth before it." This author wrote a work in which he claims to bring "new modes and orders" through an examination of Roman political history. In another work, this thinker characterized (*)** mercenaries as "useless and dangerous" and compared Septimius Severus to a lion and a fox. That work is dedicated to Lorenzo de Medici and claims "it is much safer to be feared than loved." For 10 points, name this Italian philosopher who authored *Discourses on Livy* and *The Prince*.
ANSWER: Niccolò **Machiavelli** <R. Li>

21. **The protagonist of this novel notices a photo of a hen on a blurred rock before getting drunk for the second time in his life. A character in this novel hates the word "hulking," and another requests performances of a Vladimir Tostoff piece and "The Love Nest." In this novel, a character with (*)** cufflinks made of teeth fixed the 1919 World Series, and a yellow car kills a resident of the "Valley of Ashes" watched over by T. J. Eckleburg. Jordan Baker attends the parties of the title character of this novel, who fixates on a green light on Daisy Buchanan's dock. For 10 points, name this novel narrated by Nick Carraway by F. Scott Fitzgerald.
ANSWER: *The* ***Great Gatsby*** <Yue>

Bonuses

1. For 10 points each, answer some questions about governesses in Victorian literature.
[10] First, name this character who becomes a governess at the Queen's Crawley estate after leaving Amelia Sedley. This *Vanity Fair* character leaves that job when Sir Pitt Crawley proposes to marry her, and earlier, she throws a dictionary out of a carriage.
ANSWER: **Becky Sharp** (accept either underlined part)
[10] After being a teacher for two years at Lowood, this title character of a Charlotte Brontë novel becomes a governess at Thornfield Hall. At the end of the novel she appears in, this character marries Mr. Rochester.
ANSWER: Jane **Eyre**
[10] The title character of this other novel works as a governess for the Bloomfield family and marries Edward Weston. This novel preceded the publication of its author's early feminist novel *The Tenant of Wildfell Hall*.
ANSWER: ***Agnes Grey*** <Yue>

2. Taking the symmetric difference of two sets yields the same result as applying this operation to them if and only if those sets are disjoint. For 10 points each:
[10] Name this foundational operation in set theory, often contrasted with intersection. When applied to a group of sets, this operation yields the set of all elements in that combined group.
ANSWER: **union**
[10] This German mathematician invented set theory. His namesake "diagonalization" argument proved that there does not exist any surjection between any countable set and its power set.
ANSWER: Georg **Cantor**
[10] Russell's paradox highlights the flaws in naive set theory by considering the set of all sets denoted by this adjective. In group theory, a subgroup has this property if it is invariant under conjugation.
ANSWER: **normal** <R. Li>

3. A concerto by this composer quotes medieval German folk songs, one of which depicts a wandering organ grinder. For 10 points each:
[10] Name this German composer of *Der Schwanendreher* and a 1938 opera about a painter during the German Peasants' War, *Mathis der Maler*.
ANSWER: Paul **Hindemith**
[10] *Der Schwanendreher* is a concerto for this instrument, of which Hindemith himself was a notable performer. This instrument is slightly larger than a violin and has strings tuned a fifth lower.
ANSWER: **viola**
[10] This composer of *Bluebeard's Castle* left a viola concerto for William Primrose unfinished at his death, which was later completed by his friend Tibor Serly. He wrote the concerto a few months after revising his *Concerto for Orchestra.*
ANSWER: Béla **Bartók** <Yue>

4. Protein tags help biologists to purify and identify proteins. For 10 points each:
[10] Name this essential amino acid with an imidazole side chain. Six consecutive iterations of this amino acid make up this common protein tag which can be purified with Ni-NTA ["NIN-ta"] beads.
ANSWER: **histidine**
[10] Following binding to Ni-NTA beads, His-tagged proteins can be isolated with the affinity type of this technique in which a competitive solvent elutes the proteins from the stationary phase.
ANSWER: affinity **chromatography**
[10] Proteins with a his-tag can also be purified with these Y-shaped proteins. As part of the immune response system, these proteins bind specifically to an antigen unique to each type of these proteins.
ANSWER: **antibody** (accept **immunoglobulin**) <K. Li>

5. In late 2011, the manufacturer of this device announced a "Family Edition" of this device. For 10 points each:
[10] Name this Nintendo gaming console that directly competed with the PlayStation 3 and the Xbox 360.
ANSWER: Nintendo **Wii** ["wee"]
[10] This attachment to the Wii Remote features an analog stick and is needed to play games such as Boxing on Wii Sports.
ANSWER: **Nunchuk**
[10] This expansion device that can be attached to Wii Remotes was designed to capture complex motion accurately. Released in 2009, this device is necessary to play Wii Sports Resort.
ANSWER: Wii **MotionPlus** <Suh>

6. This character notes that she would "pawn [her] soul to the devil to find out whether he is alive or dead." For 10 points each:
[10] Name this character who destroys Latunksy's apartment with a hammer, hosts a midnight ball on Good Friday while escorted by Azezello, and reads from a manuscript about Yehudah of Kerioth in Apartment Number 50.
ANSWER: **Margarita** Nikolayevna
[10] This Russian author wrote about Professor Woland wreaking havoc on MASSOLIT and interacting with the title lovers in *The Master and Margarita*.
ANSWER: Mikhail **Bulgakov**
[10] Professor Woland is actually the disguise of this demonic figure, who in John Milton's *Paradise Lost* falls from Heaven and resides in Hell.
ANSWER: **Satan** (accept the **Devil** or **Lucifer**) <Yue>

7. Paris has been through some rough times. For 10 points each:
[10] On July 14, 1789, protesters stormed the Bastille and started the French Revolution, which brought down this last king of France. He was the husband of Marie Antoinette.
ANSWER: **Louis XVI** of France (or Citizen **Louis Capet**)
[10] Even though Paris was technically its capital, this government really operated from the namesake city located south in the *zone libre*. Marshal Philippe Pétain was its Head of State from 1940 to 1944.
ANSWER: **Vichy** France
[10] During a conflict involving this region and Orleans, John the Fearless incited the namesake group of Parisian butchers to rise up in the Cabochien revolt. This region's last independent ruler died at the Battle of Nancy.
ANSWER: **Burgundy** <Suh>

8. This man planned a never-built skyscraper called The Illinois that was supposed to be a mile tall. For 10 points each:
[10] Name this American architect who owned two studios named after Taliesin. This proponent of the Prairie School also designed Fallingwater in Pennsylvania.
ANSWER: Frank Lloyd **Wright**
[10] Wright designed one of these museums in New York City named after a Jewish-American art collector. One of these museums in Bilbao was designed by Frank Gehry and has a topiary sculpture called *Puppy* in front of it.
ANSWER: **Guggenheim** Museum (prompt on art museum)
[10] Wright designed the Larkin Administration Building in this city, as well as the Martin House Complex and the Graycliff Estate. This city also boasts an Art Deco City Hall and the Guaranty Building, an early skyscraper.
ANSWER: **Buffalo**, New York <Suh>

9. An anonymous letter sent to William Parker, 4th Baron Monteagle, was instrumental in revealing this plot's existence. For 10 points each:
[10] Name this failed 1605 plot to blow up the House of Lords with the titular substance. This event's conspirators included Guy Fawkes.
ANSWER: **Gunpowder** Plot (or **Gunpowder** Treason Plot; or **Jesuit Treason**)
[10] The Gunpowder Plot attempted to assassinate this king of England. This "wisest fool in all of Christendom" wrote the *Daemonologie* after becoming obsessed with hunting down witches.
ANWER: **James I** (or **James VI of Scotland**)
[10] This leader of the Gunpowder Plot died making a final stand at the Holbeche House. His head was decapitated and displayed outside of the Parliament.
ANSWER: Robert **Catesby** <Suh>

10. Some of the first stories about this man were written by Chrétien de Troyes in the 12th century. For 10 points each:
[10] Name this knight of the Round Table whose affair with Lady Guinevere, the wife of King Arthur, eventually led to a civil war in Camelot.
ANSWER: Sir **Lancelot** de Lac
[10] Due to his adultery, Lancelot's quest for this object fails. Lancelot's son, Galahad, successfully retrieves this object before ascending to heaven.
ANSWER: the **Holy Grail** (prompt on grail)
[10] Before its retrieval by Galahad, the Holy Grail was in this man's possession. This man was impotent due to a lower body injury which is thought to have made his land became a barren wasteland.
ANSWER: the **Fisher King** (or the **Wounded King** or **Maimed King**) <Duffy>

11. This man's only book, *Notes on the State of Virginia*, is widely considered to be the most important American book published before 1800. For 10 points each:
[10] Name this Founding Father and president who was the principal author of the Declaration of Independence.
ANSWER: Thomas **Jefferson**
[10] Along with James Madison, Jefferson wrote a set of resolutions opposing the Alien and Sedition Acts named after Virginia and *this* other state.
ANSWER: **Kentucky** (accept **Kentucky** and Virginia Resolutions)
[10] After years of controversy, DNA tests have led most historians to believe that Jefferson was the father of this slave woman's six children.
ANSWER: Sally **Hemings** <Suh>

12. To determine this quantity everywhere for a point charge above a conducting plane, one might symmetrically place an equivalent "image charge" below the conducting plane. For 10 points each:
[10] Name this quantity which in high-symmetry electrostatic problems can be solved via the method of images, since a solution for this quantity, obtained by solving Laplace's equation, must be unique.
ANSWER: electric **potential** (accept scalar **potential** or **voltage**)
[10] In addition to being upright, images produced by a convex mirror are always of this type, in contrast to real images. A convex lens gives an image of this type as long as the object is placed within the focal length of the lens.
ANSWER: **virtual** image
[10] Images taken from the scanning electron and scanning tunneling varieties of this laboratory technique can visualize systems at the micro- and nanoscale.
ANSWER: **microscopy** (accept word forms) <Yue>

13. This saxophonist wrote a standard utilizing a sequence of ii - V ["two, five"] chord progressions in place of the I - IV- V ["one, four, five"] progression typically dominating the blues form. For 10 points each:
[10] Name this jazz saxophonist, nicknamed the "Bird," who also composed "Ko-Ko," "Scrapple from the Apple," and "Ornithology."
Answer: Charles "Charlie" **Parker**, Jr.
[10] Charlie Parker was a prominent figure in the development of this style of jazz, which is characterized by demonstrations of virtuosity, quick tempo, and complex chord progressions.
Answer: **bebop** (accept **bop** I guess; prompt on modern jazz; do NOT accept or prompt on any other prefix followed by bop, like "hardbop")
[10] Charlie Parker also composed this aforementioned F-major standard. It was written in a modified 12 bar format and named for a woman that shares her name with John Coltrane's wife.
Answer: "**Blues for Alice**" <Gioia>

14. A character with this condition appears in a novel-within-a-novel written by Iris Chase after her sister drives off a bridge. For 10 points each:
[10] Name this condition of the title "assassin" in that Margaret Atwood novel. In a novel by Portuguese author José Saramago, the doctor's wife is the only one not afflicted by a surreal national epidemic of this condition.
ANSWER: **blind**ness (prompt on reasonable equivalents like not being able to see)
[10] Another Saramago novel has this title, and concerns a high school teacher who discovers his doppelganger in a movie. In a Dostoyevsky novel of this title, a government official goes crazy after meeting a much more successful version of himself.
ANSWER: *The **Double***
[10] Saramago also reimagined the life of this Biblical figure in a novel titled for "the gospel according to" this figure. Nikos Kazantzakis wrote a novel about the "last temptation of" this figure.
ANSWER: **Jesus Christ** (accept either or both underlined parts) <R. Li>

15. For 10 points each, answer these questions about Michael Jordan, who graduated UNC Chapel-Hill with a degree in geography.
[10] In an interview with Cigar Aficionado, Michael Jordan revealed that he loves to visit this Caribbean Island nation to buy iconic Partagás Lusitania cigars which lies north of Jamaica.
ANSWER: **Cuba**
[10] In September 2018, Jordan visited this country to promote a soccer match between Saint-Germain and Reims in this country.
ANSWER: **France**
[10] Michael Jordan hosted a basketball clinic in this Japanese city, a large port city located on Tokyo Bay south of Tokyo itself that is the capital of Kanagawa Prefecture.
ANSWER: **Yokohama** <Oberhaus/Myers>

16. The "ionization" variety of these devices is the most well known, though they also have a photoelectric variety. For 10 points each:
[10] Name these devices that monitor the ionization current resulting from the decay of the 241 isotope of americium. The United States Fire Administration recommends testing them once per month.
ANSWER: **smoke detector**s (accept obvious equivalents; prompt on fire alarms and obvious equivalents)
[10] Smoke detectors work because americium-241 gives off this type of radiation that cannot penetrate smoke. This type of radiation consists of helium nuclei, and atoms lose mass when they emit it.
ANSWER: **alpha** radiation
[10] This is the most common oxidation state for americium. A solution of vanadium in this oxidation state is green, and the carbon in a carboxylic acid has this oxidation state.
ANSWER: +**3** <K. Li>

17. This character likes to walk along Wykeagy Avenue to observe the upper class. For 10 points each:
[10] Name this character who kills the pregnant Roberta Alden by accidentally hitting her with a camera and then allowing her to drown.
ANSWER: **Clyde Griffiths** (accept either underlined part)
[10] Clyde Griffiths is executed for the murder of Roberta Alden at the end of this novel by Theodore Dreiser.
ANSWER: *An **American Tragedy***
[10] Early in the novel, Clyde works as a bellhop in a hotel in this state. Dorothy and Toto are swept away to Oz from this state.
ANSWER: **Kansas** <Suh>

18. Members of this religion are taught to defeat the Five Thieves, which are lust, rage, greed, attachment, and conceit. For 10 points each:
[10] Name this monotheistic religion started by Guru Nanak in present-day India. Baptised members of this religion carry the Five K's.
ANSWER: **Sikh**ism (or **Sikhi**)
[10] Unlike the ten previous human gurus of Sikhism, the current one, the Adi Granth, has this unique characteristic. This characteristic is the reason that the Adi Granth is the eternal living guru of Sikhism.
ANSWER: the Adi Granth is a **book** (accept reasonable equivalents; prompt on immortality until "eternal")
[10] The Five K's require the adherent to carry the *kirpan* sword, *kangha* comb, and the *kara*, which is one of these items.
ANSWER: **bracelet** <Suh>

19. This man argued that "philosophers have only interpreted the world, the point is to change it." For 10 points each:
[10] Name this man who developed the ideas of dialectical materialism. Along with Friedrich Engels, he wrote *The Communist Manifesto*.
ANSWER: Karl **Marx**
[10] Marx's writings had a great effect on this Martinican philosopher. He discussed the dehumanization of indigenous peoples in *Black Skins, White Masks.*
ANSWER: Frantz **Fanon**
[10] Fanon's book *Wretched of the Earth* discusses violence as a means of ending this process. This process, central to much of Fanon's work, refers to when a country acquires political control over another country and exploits it economically.
ANSWER: **colonialism** (accept **colonization** and word forms; prompt on imperialism) <Huang>

20. This man was often referred to by the honorific *Mwalimu*, meaning "teacher." For 10 points each:
[10] Name this African leader whose 1967 Arusha Declaration promulgated the concept of *ujamaa*.
ANSWER: Julius **Nyerere**
[10] Nyerere was the leader of Tanganyika and this present day country. This country fought and won a war against Uganda after Nyerere offered sanctuary to Uganda's deposed president Milton Obote.
ANSWER: **Tanzania**
[10] Tanzania's victory in the war against Uganda forced this infamous Ugandan dictator to flee. Earlier, this man expelled all Asians from Uganda, and Israel launched Operation Entebbe against this man's air force.
ANSWER: Idi **Amin** <Suh>

21. A character with this name disgracefully abandons the steamer *Patna* when it begins to sink, leaving most of the passengers behind. For 10 points each:
[10] Identify this first name of a titular Joseph Conrad "lord" who is shot by his former friend Doramin after "Gentleman" Brown's escape leads to Dain Waris' death. A "lucky" man with this name is a history professor who is fired after an inebriated public lecture on "Merrie England" in another novel.
ANSWER: **Jim**
[10] This author wrote *Lucky Jim*. His novel *Take a Girl Like You* follows Patrick Standish's boorish attempts to woo the old-fashioned Jenny Bunn, culminating in his sexual assault of her at a party.
ANSWER: Kingsley **Amis**
[10] Amis was a member of a British literary movement named for "young men" of this emotion. Another member of that movement, John Osborne, penned a play about Jimmy and Alison Porter titled "look back in" this emotion.
ANSWER: **anger** (accept word forms; accept **Angry** Young Men) <R. Li>