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TOSSUPS

1. This composer's *Clavier-Übung II* (KLAH-vee-air OOH-bung "two") includes the *Italian Concerto*, which is a solo keyboard piece despite its name. A German dance called the allemande begins each of his six French Suites. This composer paired fifteen sinfonias in three voices with fifteen more inventions in two voices. This composer included thirty movements based on a G major (*) aria in a piece written to help Count Keyserling fall asleep. This Baroque composer's keyboard pieces include a collection of twenty-four preludes and fugues each, one in every major and minor key. For 10 points, name this composer of the *Goldberg Variations* and *The Well-Tempered Clavier*.

ANSWER: J.S. Bach [or Johann Sebastian Bach]

2. A philosophical movement that studies the "ordinary" types of these systems asserts that they cannot be analyzed by logical truth conditions in sentences. WVO Quine used the example of a native tribe and a rabbit to assert that only context can give meaning to these systems. A mostly-resolved debate in the field studying these systems discusses whether they come prior to thought, as in the (*) Sapir-Whorf hypothesis. The largest family of these systems is believed to trace its origins back to Proto-Indo-European. For 10 points, name these systems of communication studied by scholars like Noam Chomsky, examples of which include Swahili and English.

ANSWER: language [accept linguistics; accept ordinary language or any adjective paired with "language"; prompt on "communication" or "speech" or other such terms]

3. Prior to the events of 1984, Winston Smith steals some of this substance from his mother and sister before abandoning them during a series of air raids. This is the last word in the title of a novel which begins each chapter with a Mexican recipe. In *One Hundred Years of Solitude*, Father Nicanor Reyna levitates after drinking this substance. A novel by Laura Esquivel is titled "*Like Water for*" this substance. In another novel, Augustus (*) Gloop falls into a river of this substance manufactured by Oompa-Loompas. For 10 points, Grandpa Joe and Charlie Bucket tour Willy Wonka's factory of what confection in a novel by Roald Dahl?

ANSWER: chocolate

4. Holders of this position were listed in chronological order by the historian Manetho. The holder of this position wore a crown called the Pschent (puh-SKENT) which consisted of a white crown nestled in a red crown. The first holder of this title, who may have been the same person as Narmer, was the semi-legendary Menes (mee-nee-z). A crossed crook and flail were symbols of this position, whose holders wore a false (*) beard. In 1922, the archaeologist Howard Carter discovered the remains of an 18-year-old of this position buried in the Valley of the Kings. For 10 points, name these rulers of Ancient Egypt.

ANSWER: pharaohs [prompt on "kings of Egypt" or similar descriptive answers]

5. This number is the mode of the distribution described by Benford's law for base ten. This is the number of hydrogens bonded to nitrogen in a secondary amine. A critically damped system has this number as its damping ratio, and the inflection points of the normal distribution lie this many standard deviations away from the mean. This is the limit as x goes to zero of (*) sine of x over x. This is the natural logarithm of e, and it is the only positive integer that is neither prime nor composite. Any nonzero number raised to the zeroth power equals this number. For 10 points, name this smallest positive integer.

ANSWER: one [or unity]

6. This god kills a servant when he arrives uninvited to a feast hosted by a sea god. This god fails to eat both the meat in a trough and the trough itself, thus losing an eating contest to fire. To delay a wall being built, this god turns into a mare, mates with a workhorse, and gives birth to the eight-legged (*) horse Sleipnir. This god engineers the death of a god whom all but one material in the world have promised never to harm. That murder results when this god tricks Hoder into throwing a mistletoe spear at Balder. At Ragnarok, this god fights with his frost giant kin against the gods of Asgard. For 10 points, name this Norse trickster god.

ANSWER: Loki [or Lopt; or Loptr; or Loki Laufeyarson]

7. In 1870 Leon Gambetta escaped from this city in a hot air balloon so that he could start a resistance army. In 1916 this city was besieged by the Wilhelm Guns, which could shoot a projectile over 60 miles. The "Bloody Week" began after marshal Patrice McMahon sent troops to suppress a leftist government here in 1871. During World War I, this city was saved when thousands of troops traveled by (*) taxi cab to defend its outskirts in the First Battle of the Marne. This capital city became the site of a short-lived namesake "Commune" after the Franco-Prussian War. For 10 points, name this capital of France.

ANSWER: Paris

8. Distinct types of these materials can be distinguished by differences in their London penetration depths. The behavior of these materials was first described by Ginzburg-Landau theory, which did not explain long-range interactions between electrons. The later BCS theory explained the creation of Cooper pairs in these materials, which can be divided into (*) type I and type II based on how they are formed. These materials are natural diamagnets, expelling all magnetic fields from their interior in the Meissner effect, and they lose their namesake property at high temperatures. For 10 points, name these materials that possess zero resistance.

ANSWER: superconductors [accept superconductivity]

9. This play's opening stage directions describe a "blue piano" that "expresses the spirit of the life which goes on there." This play ends with the "swelling music" of that same "blue piano" as a man announces that "the game is seven card stud." One of this play's characters, who is accused by her sister of abandoning Belle Reve, hides in Eunice's home while her husband (*) screams her name from the sidewalk. While being carted away to a mental hospital, a woman declares that she has "always depended on the kindness of strangers" at the end of this play. For 10 points, Stella, Stanley, and Blanche appear in what play by Tennessee Williams?

ANSWER: A Streetcar Named Desire

10. Members of this phylum were once classified based on whether they had uniramous or biramous legs, a system which has since fallen out of use. This phylum has an open body plan formed of several sinuses filled entirely with hemolymph, which is rich in hemocyanin. This phylum's defining feature can be reinforced by applying either calcium carbonate or sclerotin to a primarily chitin-based cuticle, and is replaced periodically through ecdysis (EKH-die-sis), or (*) molting. Members of this phylum possess jointed appendages as part of their rigid exoskeletons, and include the subphyla Hexapoda and Decapoda. For 10 points each, name this phylum of insects and crustaceans.

ANSWER: Arthropoda [or arthropods]

HALFTIME

11. This artist depicted an old woman with a knife about to attack a soldier assaulting a young woman in *No Quiéren*. Owls and bats are seen surrounding an artist in a work by this man. Besides etching *The Sleep of Reason Produces Monsters*, this man might have painted the first explicit depiction of female pubic hair in Western art in a piece thought to be modeled after the Duchess of Alba, *The (*) Nude Maja*. While living in the Quinta del Sordo, this man painted a gray-haired god eating a bloody figure in *Saturn Devouring His Son*. For 10 points, name this artist who depicted a firing squad about to shoot a white-clad man in *The Third of May, 1808*.

ANSWER: Francisco José de Goya y Lucientes

12. While imprisoned for sedition, a preacher of this religion described the coronation of King Alpha and Queen Omega in his book *The Promise Key*. This religion views western society as a corrupt Babylon that will be saved by the Lion of Judah. A text in this religion called the *Holy Piby* "declared Marcus (*) Garvey an apostle of the Lord God." Adherents of this religion follow the I-tal ("EYE"-tahl) vegetarian diet, wear dreadlocks, and smoke ganja. For 10 points, name this religion that worships Emperor Haile Selassie of Ethiopia as the second coming of Christ, primarily based in Jamaica.

ANSWER: Rastafari movement [or Rastas; accept the derogatory term Rastafarian or Rastafarianism; prompt on "Afro-Athlican Constructive Gaathly"]

13. Two objects with this property are the subject of the continuum hypothesis, which equates the power set of aleph zero to aleph one. Georg Cantor proved the existence of one form of this property by taking the complement of the n-th digit of every element in his diagonal argument. The namesake structure in George Hilbert's Grand Hotel paradox has this property. Sets with this property are divided into countable and uncountable based on whether they can establish a one-to-one correspondence with the (*) integers. The irrationals have this property because one can always add one more number to a list of them. For 10 points, name this property often symbolized by a sideways eight.

ANSWER: infinite [accept transfinite; prompt on "countable" or "uncountable" before "countable"; accept answers that indicate an infinite number of objects]

14. The special effects in this film were achieved with the help of consultant Kip Thorne. In this film, Matt Damon plays Dr. Mann, who kills Romilly with a hidden bomb. The protagonist of this film uses a tesseract to transmit data from the robot TARS and help his daughter solve (*) Brand's equation. In this film, Murph leads an exodus to Saturn, while Cooper and Amelia travel through a wormhole and orbit a black hole named Gargantua. For 10 points, name this 2014 film about finding a new home for mankind, directed by Christopher Nolan.

ANSWER: Interstellar

15. A Chinese American named after Walt Whitman becomes obsessed with this character's personality in a novel by Maxine Hong Kingston. This character proves himself early on by discovering a cave hidden behind a waterfall, and he wields a staff that can extend itself and multiply during a fight. The bodhisattva Guanyin restricts this character with a magic headband that would (*) contract and cause him pain when a mantra is chanted. This character serves alongside Pigsy and Sandy in his most famous role. For 10 points, name this character born from a stone egg who accompanies the monk Tripitaka on a pilgrimage to retrieve Buddhist sutras in the Chinese classic *Journey to the West*.

ANSWER: Monkey King [or "Sun Wukong"; accept "Suen Ng-hung" ("She" un hohng); prompt on "Tripmaster Monkey"]

16. This king built the warship *Mary Rose*, which unexpectedly tipped over and sank while fighting off a French invasion later in his reign. He invaded Scotland in a war known as the Rough Wooing, because he wanted to force Scotland's infant queen to marry his son Edward. He unsuccessfully attempted to create an alliance with France by meeting Francis I at the Field of the Cloth of Gold in 1520. England's (*) Dissolution of the Monasteries was engineered by his minister Thomas Cromwell, who also helped annul his marriage to Catherine of Aragon. For 10 points, name this 16th-century English king who married 6 times.

ANSWER: Henry VIII ("the 8th") [prompt on "Henry"]

17. During a nightmare in this novel, a gentleman grabs at a tree branch knocking on his window but instead feels a dead girl's hand. The two central estates of this novel are separated by moors. In this novel, a "dark-skinned" orphan child overhears his childhood sweetheart say "it would degrade [h]er" to marry him." That girl in this novel instead marries (*) Edgar, whom she had met after being bitten by dogs while trespassing on Thrushcross Grange. This novel opens with Mr. Lockwood renting a room at the title estate, where he meets the servant Nelly Dean. For 10 points, name this novel about the tragic lives of Catherine Earnshaw and Heathcliff written by Emily Brontë.

ANSWER: Wuthering Heights

18. In this country, the prosecutor Alberto Nisman was mysteriously killed after he accused this country's former president of covering up Iran's involvement in the 1994 bombing of a Jewish community center. In August 2014 this country voluntarily defaulted on its national debt after a New York state court ruled that it still had to repay debts from its previous 130 billion dollar default in 2001. The president of this country's Boca Juniors football club, (*) Mauricio Macri, defeated the left-wing incumbent Cristina Kirchner in its 2015 presidential election. It was once led by Juan Peron (wahn per-"OWN"). For 10 points, name this country whose capital is Buenos Aires (BWAY-noes "EYE"-rais).

ANSWER: Argentina [or Argentine Republic; or República Argentina]

19. Supplies for producing this commodity were once transported along the Chilkoot Trail and the White Pass Trail. The world's largest source of this commodity is an African escarpment known as the Witwatersrand (vit-VAH-ters-rahnd). In 1896 miners of this commodity founded Dawson City, which became a setting in Jack London's novel *Call of the Wild*. Two decades after diamonds were discovered around (*) Kimberley, South Africa became industrialized when this commodity was discovered around Johannesburg (jo-HAN-nez-burg). In the 1890s it was mined along the Klondike River in the Yukon. For 10 points, name this precious metal stored in Fort Knox.

ANSWER: gold [or Au; or aurum]

20. In 1979 this city witnessed the White Night Riots, during which one protester told a reporter "Make sure you put in the paper that I ate too many Twinkies." After World War II, this city's Castro District was settled by thousands of gay servicemen. After George Moscone (moss-KOH-nee) was assassinated here in 1978, Dianne Feinstein became its mayor. This city's Haight-Ashbury neighborhood was flooded with over 100,000 (*) hippies during the 1967 Summer of Love. It was home to the first openly gay man ever elected to public office in California, Harvey Milk. For 10 points, name this city home to the Golden Gate Bridge.

ANSWER: San Francisco

END OF REGULATION, PROCEED ONLY IF TIED

21. This modern-day country was split into British and Italian halves during the Scramble for Africa. During the rule of Siad Barre (see-ahd bah-RAY), this country lost support from the Soviet Union after it invaded its western neighbor in the Ogaden War. The Al-Shabaab terrorist group controlled large sections of this country up until 2012. In 1994 Bill Clinton withdrew U.S. forces from this country after two (*) Black Hawk helicopters were shot down in its capital. This country lacked a permanent central government from 1991 to 2012. Mogadishu (MOH-gah-dee-shoo) is the capital of, for 10 points, what country on the Horn of Africa that is a hotbed of piracy?

ANSWER: Somalia [or Federal Republic of Somalia; or Jamhuuriyadda Federaalka Soomaaliya]

22. The Cook-Levin theorem states that satisfying expressions of this data type is an NP-complete problem. The ternary operator denoted question mark-colon takes an expression of this type as its first argument. In PHP, JavaScript, and Java, the instanceof operator returns this data type based on the relationship between an object and a class. Relational operators such as (*) "greater than or equal to" return this data type, whose instances can be connected using logic gates such as AND and OR. For 10 points, name this data type that can either be true or false, named after an English mathematician.

ANSWER: boolean

BONUSES

1. This man's marriage to Katherine Von Bora set the precedent that allowed Protestant priests to marry. For 10 points each:
[10] Name this man whose Ninety-Five Theses was widely regarded as the initial catalyst for the Protestant Reformation.

ANSWER: Martin **Luther**

[10] Luther's Ninety-Five Theses attacked the sale of these things, which granted full or partial remission of the punishment of sins. Luther insisted that God alone gave forgiveness for sins.

ANSWER: **indulgences**

[10] Luther's Ninety-Five Theses were allegedly posted on the door of the All Saints' Church in this city. This small city was the seat of the Electorate of Saxony until 1547.

ANSWER: **Wittenberg** [or Lutherstadt **Wittenberg**]

2. One of these algorithms breaks down its starting list into small sections before making use of a namesake function to put them back together. For 10 points each:

[10] Name these algorithms, exemplified by the merge variety. The quick type makes use of a series of pivots that roughly bisect a list.

ANSWER: **sorting** algorithms [accept **mergesort** or **quicksort**]

[10] Many sorting algorithms use this technique, in which a function calls itself to divide and conquer the problem.

ANSWER: **recursion**

[10] Implementing a sorting algorithm in this kind of programming language would involve the creation of a method. This type of language adheres to the principles of encapsulation and polymorphism.

ANSWER: **object-oriented** programming [or **OO**]

3. Ted Kennedy infamously declared that this man's America was "a land in which women would be forced into back-alley abortions", among other dastardly things. For 10 points each:

[10] Name this conservative who was unsuccessfully nominated to the Supreme Court by Ronald Reagan in 1987.

ANSWER: Robert **Bork** [or Robert Heron **Bork**]

[10] Later in his career, Bork became a leading scholar in this type of law, examples of which include the 1914 Clayton Act and the 1890 Sherman Act.

ANSWER: **antitrust** law [or **competition** law or anti-**monopoly** law]

[10] In 1913 this major oil corporation founded by John D. Rockefeller was broken up into smaller companies, due to the Sherman Antitrust Act.

ANSWER: **Standard Oil** [Company and Trust]

4. Name these owners of mythological swords, for 10 points each.

[10] This king of Camelot and son of Uther Pendragon is given the sword Excalibur by the Lady of the Lake.

ANSWER: King **Arthur** [or **Arthur** Pendragon]

[10] This hero of the Völsunga Saga uses the sword Gram to kill the dragon Fafnir. He marries Gudrun instead of the valkyrie Brynhild (**BRINN-hild**), who in turn marries Gudrun's brother Gunnar.

ANSWER: **Sigurd** [or **Siegfried**; or **Sivard** Snarensvend]

[10] This Shinto storm god marries Kushinada-hime (**KOO-shee-NAH-dah HEE-meh**) after slaying the eight-headed serpent Yamato-no-Orochi and extracting the sword Kusanagi-no-Tsurugi from its fourth tail.

ANSWER: **Susano'o** (**soo-SAH-noh-oh**) [or **Susanowo**; or **Susano'o**-no-Mikoto; or Takehaya **Susanoo**-no-Mikoto]

5. Newton's second law can be stated as force being equivalent to the time derivative of this quantity. For 10 points each:

[10] Name this physical quantity defined classically as the product of mass and velocity.

ANSWER: momentum [accept **p**]

[10] Momentum is always conserved in collisions, but kinetic energy is not. This class of collisions possess some degree of sticking, which prevents the conservation of energy.

ANSWER: inelastic collisions

[10] This point moves along a straight line with constant speed in an elastic collision, regardless of the initial or final direction of the particles.

ANSWER: center of mass [accept **COM**; prompt on "center of gravity"]

6. This novel's depressing original ending was later rewritten so that the main character would reunite with Estella at the ruins of Satis House. For 10 points each:

[10] Name this Charles Dickens novel about the boy Pip, who is sent to be raised in the city on the sponsorship of a mysterious benefactor.

ANSWER: *Great Expectations*

[10] In *Great Expectations*, Satis House is owned by this mean old lady, who decided to never take off her wedding dress after she was left at the altar by a scammer named Compeyson.

ANSWER: Miss Havisham

[10] Dickens rewrote the ending to *Great Expectations* on the suggestion of fellow author Edward Bulwer-Lytton, who is best known for coining this famous and often-parodied opening line in his novel *Paul Clifford*.

ANSWER: "It was a dark and stormy night"

7. In 1882 the senior British government officials Frederick Cavendish and Thomas Henry Burke were stabbed to death in this city's Phoenix Park. For 10 points each:

[10] Name this capital of Ireland.

ANSWER: Dublin

[10] The Phoenix Park Murders hurt the popularity of this nationalist Irish political leader, who supported Irish home rule during the late 19th century.

ANSWER: Charles Stewart Parnell

[10] In the British Parliament, Parnell was an ally of this prominent Liberal, who served as prime minister four separate times and had a notoriously poor relationship with Queen Victoria.

ANSWER: William Gladstone

8. Answer the following about Dante and Virgil's excellent adventure, for 10 points each:

[10] In the first part of the *Divine Comedy*, Dante and Virgil journey through this realm, which is arranged in nine concentric circles, each imprisoning a different and more egregious type of sinner.

ANSWER: Hell [or Inferno]

[10] Dante and Virgil encounter this woman, whose beauty Edgar Allan Poe compared to "Nicéan barks of yore" in a sonnet. Another literary address asks if this woman's face was "the face that launched a thousand ships / and burnt the topless towers of Ilium."

ANSWER: Helen of Troy

[10] Dante and Virgil see this man being chewed on by an angry, tormented Satan alongside Brutus and Cassius. Robert Browning compared William Wordsworth to this man in his poem *The Lost Leader*.

ANSWER: Judas Iscariot

9. This painting features the artist's future wife playing with a dog and was exhibited by the art dealer Paul Durand-Ruel in 1882. For 10 points each:

[10] Name this painting that depicts several friends enjoying a meal at the Maison Fournaise (MAY-zohn "four"-NEZ).

ANSWER: Luncheon of the Boating Party [or Le déjeuner des canotiers]

[10] Pierre-Auguste Renoir (ren-war), the artist of *Luncheon of the Boating Party*, belonged to this art movement. This movement was famously named after a painting by Claude Monet (moh-NEY) set at a harbor in Le Havre (hahv).

ANSWER: Impressionism [accept word forms such as Impressionists; do not accept or prompt on "Post-Impressionism"]

[10] This man was shown sitting backwards in a chair in the *Luncheon of the Boating Party*. One of this man's own works depicted a mustachioed man, wearing a top hat and using an umbrella, in his *Paris Street; Rainy Day*.

ANSWER: Gustave Caillebotte (KYE-"boat")

10. The cornet is a plumper, more mellow-sounding variety of this instrument. For 10 points each:

[10] Name this smallest, highest-pitched brass instrument in the standard orchestra. Unlike the French horn, this instrument is usually pitched in B-flat.

ANSWER: trumpet

[10] The B-flat trumpet is so called because playing this note on it actually produces a B-flat. This note's major key has no sharps or flats.

ANSWER: C [or C major]

[10] Four flats are found in the minor key of this note, which sits a perfect fifth below C. It is the key to which French horns and English horns are traditionally pitched.

ANSWER: F [or F major; or F minor]

11. This variable's namesake ladder in cosmology quantifies various methods of measuring it, starting with things within our own solar system. For 10 points each:

[10] Name this variable that represents how far away something is; it can be measured in AU or lightyears.

ANSWER: distance [accept equivalents]

[10] Distances beyond a few light-years away are best measured using these astronomical events as standard candles because of their consistent absolute magnitude of -19.3 as the result of mass accreting onto a white dwarf.

ANSWER: type Ia ("one A") supernova [prompt on just "supernova"]

[10] These astronomical objects are among the most distant known to exist, as well as some of the most luminous. They produce massive jets of energy powered by an accretion disk around a central black hole.

ANSWER: quasars [accept quasi-stellar radio sources, quasi-stellar objects, Seyfert galaxies, or active galactic nuclei; prompt on "QSO" or "AGN"]

12. Judicial activism occurs when a judicial ruling is based on political viewpoints, rather than constitutional interpretation. For 10 points each:

[10] Critics accused the Supreme Court of judicial activism when they ended restrictions on campaign contributions from nonprofit corporations such as Super PACs in this 2010 case against the Federal Election Commission.

ANSWER: Citizens United v. Federal Election Commission

[10] This author of the *Citizens United* majority opinion has mocked the idea of judicial activism by claiming "an activist court is a court that makes a decision you don't like." This conservative Justice is usually considered the Court's swing vote.

ANSWER: Justice Anthony Kennedy

[10] This 1954 case is a commonly-cited example of judicial activism. This case overturned *Plessy v. Ferguson* by declaring that "separate but equal is inherently unequal" in ruling segregation of public schools unconstitutional.

ANSWER: Brown v. Board of Education of Topeka

13. This hormone is responsible for regulating the sympathetic nervous system along with another similarly named hormone. For 10 points each:

[10] Name this hormone that governs the fight-or-flight response, and is stored in namesake pens to treat anaphylactic (ANN-uh-fuh-LACK-tick) shock.

ANSWER: epinephrine (eh-pih-NEH-frin) [or adrenaline]

[10] Adrenaline is derived from the oxidation of this hormone, whose production is impaired by damage to the pars compacta of the substantia nigra. Deficiency in this hormone can lead to a disease characterized by the formation of Lewy bodies.

ANSWER: dopamine

[10] Both dopamine and adrenaline are catecholamines (CAT-e-KO-la-meens), created from successive oxidation of this aromatic amino acid with symbol Y.

ANSWER: tyrosine

14. In 1967 the Christian Igbo (IGG-bo) people attempted to secede from this country and form the independent state of Biafra. For 10 points each:

[10] Name this most populous country in Africa, which is home to the port of Lagos.

ANSWER: Nigeria

[10] In 1971 Bernard Kouchner formed this medical humanitarian group after he witnessed Red Cross workers neglect to help Biafran refugees in Nigeria.

ANSWER: Doctors Without Borders [or Médecins Sans Frontières]

[10] In the 1990s this Dutch oil company was accused of collaborating with the Nigerian government to commit human rights violations, such as the execution of the prominent activist Ken Saro-Wiwa.

ANSWER: Royal Dutch Shell

15. Marion Zimmer Bradley wrote *The Mists of Avalon*, a feminist interpretation of the King Arthur legends that was largely narrated by this woman. For 10 points each:

[10] Name this sorceress in Arthurian literature. T.H. White depicted her as an evil witch in *The Once and Future King*.

ANSWER: Morgan le Fay [accept "Morgaine"; accept "Morgan le Fay"]

[10] Morgan bewitches the Green Knight and sets in motion a beheading game with this man in a romance likely written by the Pearl Poet. This knight of the Round Table is considered the most loyal of Arthur's subjects.

ANSWER: Sir Gawain [accept "Sir Gawain and the Green Knight"]

[10] This author compiled *Le Morte d'Arthur*, which is the most famous and widely-used source of King Arthur stories.

ANSWER: Thomas Malory

16. The singer of this soprano aria wishes to "go to Porta Rossa to buy the ring" and to "go to the Ponte Vecchio (PON-tey VEH-kee-oh) and throw [herself] into the Arno!" For 10 points each:

[10] Name this aria from the opera *Gianni Schicchi* ("Johnny" SKEE-kee) in which the title character's daughter Lauretta prays to God to let her die because she cannot marry her beloved Rinuccio (rin-NOO-chee-oh).

ANSWER: "O mio babbino caro" [accept reasonable English translations such as "Oh My Beloved Father"]

[10] In this opera by the same composer, the Persian prince Calaf sings that none shall sleep because the title Chinese princess does not know his name in the aria "Nessun dorma."

ANSWER: Turandot (TUR-an-doh)

[10] This Italian composer of *Gianni Schicchi* and *Turandot* also created *Tosca*, *La bohème*, and *Madama Butterfly*.

ANSWER: Giacomo Puccini [or Giacomo Antonio Domenico Michele Secondo Maria Puccini]

17. In one of her stories, Mary Grace throws a book called *Human Development* at Ruby Turpin and screams "Go back to hell where you came from, you old wart-hog!" For 10 points each:

[10] This author of "Revelation" also wrote *Wise Blood*, in which Hazel Motes kills Onnie Jay Holy after he creates the "Holy Church of Christ without Christ", inspired by Motes' own preaching.

ANSWER: Flannery **O'Connor**

[10] Flannery O'Connor also wrote this short story, in which the Misfit and his lackeys kills the Bailey family while they're on a road trip.

ANSWER: "A **Good Man Is Hard To Find**"

[10] This unfortunate member of the Bailey family asks the Misfit why he doesn't pray. The Misfit claims that this woman would have been a good person if there were "somebody there to shoot her every minute of her life."

ANSWER: the **grandmother** [accept equivalents like "the **grandma**"; prompt on answers such as "the old lady" that don't identify her relationship in the family]

18. For 10 points each, name these planned capital cities:

[10] The architect Oscar Niemeyer (**NEE-"my"-ur**) designed most of the public buildings in this planned city, which replaced Rio de Janeiro as its country's capital in 1960.

ANSWER: **Brasilia**

[10] In the 1960s, Ayub Khan began construction on this planned city near his army headquarters in Rawalpindi (**RAH-wul-PIN-dee**), in order to replace Karachi (**kah-RAH-chee**) as the capital of his country.

ANSWER: **Islamabad**

[10] In 1997 president Nursultan Nazarbayev (**noor-sul-TAHN nah-zar-BYE-eff**) moved his country's capital from Almaty to this planned city in the middle of the Central Asian steppe.

ANSWER: **Astana**

19. After this battle, French Indochina was split along the 17th parallel into North and South Vietnam. For 10 points each:

[10] Name this 1954 battle in which thousands of French troops were trapped and defeated by Communist forces in an isolated valley of northern Vietnam.

ANSWER: Battle of **Dien Bien Phu** (**d'yen b'yen foo**)

[10] The Battle of Dien Bien Phu damaged the reputation of this unstable French government, which was established in the aftermath of World War II.

ANSWER: French **Fourth Republic**

[10] The Fourth Republic succeeded this World War II-era puppet regime, which was established after Nazi Germany conquered France. This regime was led by World War I hero Philippe Petain (**fih-leep pay-tan**).

ANSWER: **Vichy** France [or **Vichy** Regime or **Vichy** government; prompt on "French State" or "Etat Francais"]

20. A middle-aged couple walks into your brokerage firm one day, asking for advice. For 10 points each:

[10] The couple's 401(k) plans ensure that they have sufficient tax-deferred savings for this later period of their lives, which begins when they stop working.

ANSWER: **retirement** [accept word forms and obvious equivalents]

[10] You advise the couple to invest in these low-risk, fixed-income securities. By buying one of these securities, you are lending money to a corporation or government, who will pay you interest for several years and then pay back your principal.

ANSWER: **bonds** [do not accept "annuities"]

[10] The couple then asks about these financial plans, which permit tax-deductible employer-independent retirement contributions. Their Roth type gives tax relief on income withdrawn after retirement.

ANSWER: **IRAs** [or **Individual Retirement Accounts**; accept Roth **IRAs**]

21. This character's downfall comes when his father throws an apple into his back that remains lodged and rotting for over a month. For 10 points each:

[10] Name this character who wakes up to find he has transformed into a bug.

ANSWER: **Gregor Samsa** [accept either underlined part]

[10] This character is the only person willing "to enter a room in which Gregor ruled the empty walls all by himself." She plays violin for three of her family's lodgers, who then see Gregor and cancel the payment for their rooms.

ANSWER: **Greta** [or **Grete**] [prompt on "sister"]

[10] Grete and Gregor Samsa are from *The Metamorphosis*, a novella by this German author of "In the Penal Colony" and *The Trial*.

ANSWER: Franz **Kafka**