

LOGIC (Lots of Good Interesting Content)
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Packet 7

Tossups

1. **This person lends their name to an exceptional clause in one state's Racial Integrity Act of 1924 permitting interracial marriage. Henry Spelman served as an interpreter when Captain Samuel Argall abducted this figure. This figure's most notable action took place in the village of Werowocomoco** [ware-wuh-KAH-muh-coh]. **Alexander Whitaker converted this figure to (*) Christianity, after which she took the name Rebecca. This figure was married to the man who first successfully cultivated tobacco in Jamestown, John Rolfe. For 10 points, name this daughter of Powhatan who as a young girl allegedly saved John Smith's life.**

ANSWER: Pocahontas [accept Matoaka, accept Rebecca Rolfe before "Rebecca" is read; prompt on Rolfe before "Rolfe" is read] <AN, American History>

2. **In 2015, three independent groups claimed to have performed a "loophole-free" experiment involving two of these particles, which they performed to experimentally violate Bell's inequality. The exchange of the virtual form of these particles mediates the electromagnetic force. Self-interference of these particles was observed in Thomas (*) Young's double-slit experiment. These particles scatter off electrons in Compton scattering. The energy of these particles is equal to Planck's constant times frequency. For 10 points, name these massless, chargeless particles that are the quanta of light.**

ANSWER: photons <GC, Physics>

3. **This composer collaborated with Lejaren Hiller on a multimedia work for harpsichord. This composer wrote a series of *Number Pieces* named for the number of performers involved. One performance of a work by this composer will be finally completed in 2640. David Tudor premiered a work by this composer of *As Slow as Possible* that was divined using the *I Ching*. This man's *Sonatas and Interludes* involve the use of rubber bands and screws to (*) "prepare" a piano, while 12 radios are used in his *Imaginary Landscape No. 4*. For 10 points, name this American composer of a work in which a pianist sits in silence for the title duration of *4 Minutes, 33 Seconds*.**

ANSWER: John Milton Cage Jr. <JG, Auditory Fine Arts>

4. **Richard Haag converted an abandoned coal gasification plant into this city's Gas Works Park. A concrete Troll is located in this city's Fremont neighborhood, and houseboats line the shore of its nearby Lake Union. Two of the five longest pontoon bridges in the world carry an interstate across a lake from this city to its suburbs of Mercer Island and (*) Bellevue. A museum containing the glass sculptures of Dale Chihuly is located at the base of a feature in this city, which was built alongside a monorail for the 1962 World's Fair. For 10 points, name this city on Puget Sound that contains the Space Needle, the largest city in Washington.**

ANSWER: Seattle <JG, Geography>

5. **This author describes "a singer everyone has heard" in a sonnet about a midwood bird. In another poem by this author, the speaker compares a spider's web to a "white piece of rigid satin cloth." This author of "The Oven Bird" and "Design" included a poem in his collection (*) *North of Boston* that ends by noting "good fences make good neighbours." The speaker of this author's most famous poem describes a path that "was grassy and wanted wear," and begins "two roads diverged in a yellow wood." For 10 points, name this American poet of "Mending Wall" and "The Road Not Taken."**

ANSWER: Robert Lee Frost <WG, Non-Epic Poetry>

6. Lewis Henry Morgan used this location to name systems of kinship that distinguish relatives only based on sex and generation. This location's language only has five vowels and eight consonants, giving it the shortest alphabet out of any language. Residents of this location use part of the taro plant to make a mashed paste called poi, a staple of this location's cuisine. A dance from this place has an ancient form known as kahiko that is accompanied by drums, while its (*) auana [ow-ah-nah] form is often done alongside ukuleles. Visitors to this place are typically given a necklace of flowers called a lei. For 10 points, name this island chain and U.S. state where the hula dance originates from.

ANSWER: Hawaii [or Hawaiian kinship] <EA, Social Science>

7. A brown colored substance used to grow these organisms is named for its resemblance to chocolate. Tryptone and amino acids can be found in a substance used to grow these organisms called LB. Substances for growing these organisms can be made selective by adding tetracycline or ampicillin. Glycerol stocks of these organisms are typically kept in a (*) negative 80 degree Celsius freezer. An inoculation loop is used to separate colonies of these organisms during streaking. These organisms are often grown on top of a layer of agar in a Petri dish. For 10 points, Salmonella and E coli are examples of what small, unicellular organisms killed by antibiotics?

ANSWER: bacteria [or bacterium; prompt on microbes or microorganisms or cells or prokaryotes; ask to be less specific on an answer of Escherichia coli] <GC, Biology>

8. In this state, politicians traditionally volunteer to face heckling crowds at the Fancy Farm Picnic. A senator from this non-Utah state joined Mike Lee as one of only two votes against the 9/11 compensation package. A senator of this state drew fire for tweeting a cartoon depicting an opponent's name on a tombstone days after the El Paso shooting. Fighter pilot Amy McGrath is running to challenge this state's senior senator, who vowed to be the (*) "Grim Reaper" for stalling legislation passed by the Democratic-held House. For 10 points, name this state represented in the Senate by Rand Paul and Majority Leader Mitch McConnell.

ANSWER: Kentucky <AN, Current Events>

9. Materials recovered from a footlocker in Bangor form this novel's narrative, which is framed as a series of tapes transcribed by Professor Piexoto. This novel's protagonist discovers the fake Latin phrase "nolite te bastardes carborundorum" carved into her wardrobe. In this novel, the (*) Mayday member Nick serves as a chauffeur for the Commander, who secretly plays Scrabble with this novel's protagonist and is married to Serena Joy. This novel is set in Gilead, where women are treated as property. For 10 points, name this book about Offred, written by Margaret Atwood.

ANSWER: The Handmaid's Tale <TB, Long Fiction>

10. One side in this war massacred thousands of civilians in Paracuellos [par-ah-kuh-way-yos] and carried out the "Execution" of the Sacred Heart of Jesus. This war was preceded by a violent miners' strike in its country's northwest. Robert Capa captured a photograph of a *Falling Soldier* during this war, in which Emilio Mola coined the term (*) "fifth column." In this war, republican forces under Manuel Azaña were aided by international forces such as the Abraham Lincoln Brigade. The bombing of a Basque town by a Nazi squadron during this war inspired Pablo Picasso's painting *Guernica*. For 10 points, name this conflict won by Francisco Franco in its namesake country.

ANSWER: Spanish Civil War <JL, European History>

11. In one election, this man defeated Mangosuthu Buthelez, a leader from a group that perpetrated the Boipatong Massacre, the Inkatha Freedom Party. This man, who established a law firm with Oliver Tambo, was captured with Walter Sisulu at Liliesleaf Farm, and he co-founded the militant group *Umkhonto we Sizwe*, meaning (*) "Spear of the Nation." This leader gave the "I am prepared to die" speech before being sentenced in the Rivonia Trial, and he shared a Nobel Peace Prize with his predecessor, F. W. de Klerk. For 10 points, name this leader of the ANC who was imprisoned on Robben Island for fighting against apartheid in South Africa.

ANSWER: Nelson Rolihlahla Mandela [prompt on Madiba] <JG, World History>

12. This passage asks the audience to ponder how the “fowls of the air” and “lilies of the field” flourish without toil in assuring them they will be provided for, and should thus bear “no thought for the morrow.” Near the end of this passage, the speaker says that a house built on sand will fall, unlike one built on stone. It warns against false prophets that provide (*) “figs from thistles,” and warns not to “judge, lest ye be judged.” This speech, which introduces the Lord’s Prayer, includes “blessed are the meek, for they shall inherit the earth” as one of its four Beatitudes. For 10 points, name this speech given by Jesus in the Book of Matthew while on top of a hill.

ANSWER: Sermon on the Mount [prompt on Book of Matthew or Gospel of Matthew before it’s read; do NOT accept or prompt on “Beatitudes” or “Lord’s Prayer”] <EA, Religion>

13. Christopher Strachey proposed that these objects should be treated as “first-class,” meaning they can be stored in a data structure or assigned to a variable. The anonymous types of these objects can be represented as their “lambda” type, using preceding square brackets in C++ [C plus plus] or an arrow in Java 8. These entities are tracked by storing their (*) return addresses in a call stack. The void keyword is used to indicate that these entities do not return a value. These objects are recursive if they keep making calls to themselves until a base condition is met. For 10 points, name these objects which can take arguments as inputs and return outputs.

ANSWER: functions [accept methods or subroutines; accept first-class functions; accept functional programming; accept anonymous functions; accept lambda functions] <MT, Computer Science>

14. In one part of this novel, Marie-Claude describes how her husband leaving her for another woman was simply a mid-life crisis after that husband is paralyzed and dies during a political protest in Cambodia. A character in this novel hates Beethoven, but makes use of the Beethoven-derived phrase “es (*) muss sein” to describe fate. The main character of this novel becomes a window-washer after not retracting an anti-communist newspaper article; that character sleeps with Sabina in Zurich, despite living with his wife Tereza. For 10 points, name this Prague Spring-set novel by Milan Kundera.

ANSWER: The Unbearable Lightness of Being [accept Nesnesitelná lehkost bytí] <EA, Long Fiction>

15. This composer included “Isfahan” and “Ad Lib on Nippon” in his *Far East Suite*. This man’s career was revived by a performance of his “Diminuendo and Crescendo in Blue” at the Newport Jazz Festival. This man’s “East St. Louis Toodle-Oo” exemplified his style of “jungle music,” and his Carnegie Hall debut featured a symphony depicting African-American history entitled *Black, Brown and Beige*. This man performed songs like (*) “Mood Indigo” at the Cotton Club, and he popularized a song by Billy Strayhorn that describes a route to Sugar Hill. For 10 points, name this pianist, famous for the jazz standard “Take the ‘A’ Train.”

ANSWER: Duke Ellington [or Edward Kennedy Ellington] <JG, Other Auditory Fine Arts>

16. In this painting, a smoking lamp sits atop a black metal pedestal, and a man in gray bows his head and sits on a stone block with the artist’s initials. A woman waves while ascending a staircase with two men at the end of a hallway in this painting’s background. Apollodorus clutches a wall in grief as a figure in this painting holds his head and extends a (*) goblet to this painting’s central figure. That central figure calmly sits on his jail cell bed and points upward with his finger to console Crito and others before his death. For 10 points, name this painting depicting the title Athenian philosopher preparing to drink hemlock, a work by Jacques-Louis David.

ANSWER: The Death of Socrates [or La Mort de Socrate] <WG, Visual Fine Arts>

17. The Huks were one group in this country that opposed its Japanese occupation. The Katipunan was a revolutionary organization in this country. Pope John Paul II refused to stay in this country’s Coconut Palace due to the endemic poverty of its people. Manuel Quezon was the first president of this Asian country, where the (*) People Power Revolution overthrew one leader. Thousands of Moro Muslims in this country were killed by a dictator who was succeeded by Corazon Aquino. The shoe-loving Imelda was married to that dictator of this country, Ferdinand Marcos. For 10 points, name this Southeast Asian island country, a former Spanish colony.

ANSWER: Republic of the Philippines <GP, World History>

18. In one short story by this author, a character recalls a poem that he had “forgotten that he had forgotten” about “a soldier of the Legion” who “lay dying in Algiers.” In another short story, “a wonder with a gun” named Scratchy Wilson decides not to fight Jack Potter after learning that he is married. This author began one short story by stating that “none of them knew the (*) color of the sky.” In that short story by this author, an Oiler, a Cook, a Captain, and a Correspondent try to reach land after a shipwreck. For 10 points, name this author of the short stories “The Bride Comes to Yellow Sky” and “The Open Boat,” who wrote about the soldier Henry Fleming in his novel *The Red Badge of Courage*.

ANSWER: Stephen Crane <WG, Short Fiction/Other>

19. This mythological being is sometimes identified with Dzunukwa and Ste-yah-hah-mah, the “Stick-Man.” J.W. Burns, a schoolmaster at a Canadian tribal reserve, coined one of this being’s most common names, which he said was derived from the Halkomelem dialect. Stories about this being can be originally traced to a 1958 article in the *Humboldt Times*. Robert Patterson and Bob Gimlin supposedly captured this creature on (*) film. Grover Krantz displayed plaster casts of this figure and argued that it was a type of *Gigantopithecus*. For 10 points, name this hairy ape-like creature said to inhabit the Pacific Northwest.

ANSWER: Bigfoot [or Sasquatch] <TB, Mythology>

20. Elimination reactions of transition metal complexes are almost always this type of reaction. Sodium borohydride, lithium aluminum hydride, and other hydrides are common reagents used to facilitate this type of reaction. The standard hydrogen electrode is used to standardize the cell potential for this type of reaction, which include the conversion of two protons to (*) hydrogen gas. This type of reaction, which includes the electrolysis of a metal cation to produce solid metal, occurs at the cathode of an electrochemical cell. Electrons are gained in--for 10 points--what type of reaction, which are contrasted with oxidation reactions?

ANSWER: reductions [accept reductive eliminations; accept reduction potential; accept reducing agent; prompt on redox reactions; prompt on electrochemical reactions or electrolysis] <GC, Chemistry>

Bonuses

1. One siege of this city was repulsed with the help of Khan Tervel. For 10 points each:

[10] Name this city, which was unsuccessfully besieged by the Arabs under Maslama ibn Abd-al Malik from 717-718. This capital city of the Byzantine Empire defeated an earlier Arab siege in the 670s.

ANSWER: **Constantinople** [do NOT accept "Istanbul"]

[10] The Byzantines defeated another siege of Constantinople in 860 from this state. This state, ruled from the capital of modern Ukraine, was later converted to Orthodox Christianity during the reign of Vladimir the Great.

ANSWER: **Kievan Rus'**

[10] During both the Rus' and Arab sieges of Constantinople, the Byzantines employed this liquid weapon to set enemy ships alight. This substance burned under water and could be fired from a nozzle or used in a grenade.

ANSWER: **Greek fire** <GP, European/British History>

2. A family's coat of arms in this short story depicts a foot stepping on a snake that bites its heel, and that family's motto is "Nemo me impune lacessit." For 10 points each:

[10] Name this short story, in which Montessoro imprisons Fortunato after promising him the title wine.

ANSWER: **"The Cask of Amontillado"**

[10] This author of "The Cask of Amontillado" wrote a poem in which the title bird perches "on the pallid bust of Pallas" and repeatedly says "Nevermore."

ANSWER: Edgar Allen **Poe**

[10] In Poe's short story "Hop Frog," the title character dresses the king and his seven ministers as these animals. In "The Murders in the Rue Morgue," one of these animals commits a double homicide.

ANSWER: **orangutans** <WG, Short Fiction/Other>

3. For 10 points each, answer the following about ancient Roman religion:

[10] The top priest of ancient Roman religion was the pontifex maximus, whose purview influenced traditions regarding this religious title. Its current holder is Francis, who hails from Argentina.

ANSWER: the **pope**

[10] The salii [say-lye] were a group of leaping priests who served this deity, who formed the Archaic Triad with Jupiter and Quirinus. Numa Pompilius dedicated a "campus" in the city of Rome to this god.

ANSWER: **Mars** Gradivus [accept **Campus Martius**]

[10] These priests were separate from the pontifices and were in charge of interpreting the feelings of the gods. They would interpret such omens as bird flight patterns or weather phenomena.

ANSWER: **augurs** [or **augures**] <EA, Religion>

4. The dioxide of this element is the major constituent of sand. For 10 points each:

[10] Identify this element, which is located directly below carbon on the periodic table. Its' chemical symbol is Si.

ANSWER: **silicon**

[10] The dioxide of silicon also comprises this typically transparent, non-crystalline, amorphous material.

ANSWER: **glass**

[10] In laboratory glassware, boron trioxide is added to glass to increase the value for this quantity of the glass. For isotropic materials, the "volume" form of this quantity is equal to three times the "linear" form.

ANSWER: **coefficient of thermal expansion** [or linear **coefficient of thermal expansion**; or volume **coefficient of thermal expansion**; prompt on alpha; prompt on beta] <GC, Chemistry>

5. The figure in this painting was depicted smoking a pipe in an illustration by Sapeck for *Le Rire*, and Andy Warhol repeatedly silk-screened this painting in his work *Thirty Are Better Than One*. For 10 points each:

[10] Name this iconic portrait of a woman with an enigmatic smile, the most famous work of Leonardo da Vinci.

ANSWER: **Mona Lisa** [or *La Gioconda*; or *La Joconde*]

[10] A notable parody of the *Mona Lisa* is this work by Marcel Duchamp, which consists of a cheap postcard of the painting with a mustache drawn on it.

ANSWER: **L.H.O.O.Q.**

[10] *L.H.O.O.Q.* was one of Duchamp's "readymades," everyday objects presented as art. Another readymade is *Prelude to a Broken Arm*, which is one of these objects.

ANSWER: snow **shovel** <TB, Visual Fine Arts>

6. The fundamental theorem of algebra states that every polynomial with positive degree has at least one root in this set of numbers. For 10 points each:

[10] Identify this type of number with a real and imaginary part of the form a plus $b i$.

ANSWER: **complex** number

[10] This mathematician's namesake formula is used to write complex numbers in polar form. It states that e to the power quantity theta times i is equal to cosine theta plus i sine theta.

ANSWER: Leonhard **Euler**

[10] For a given complex number a plus $b i$, the value of theta in polar coordinates is determined by taking this function of the fraction b over a .

ANSWER: **inverse tangent** [or **arctangent**] <LZ, Mathematics>

7. This tradition is contrasted with continental philosophy in its emphasis on facts and logic. For 10 points each:

[10] Identify this broad philosophical style popular in the United States and Britain, whose members includes W. V. O. Quine and G. E. Moore.

ANSWER: **analytical** philosophy

[10] Bertrand Russell, a prominent analytic philosopher, supported this position with an analogy about a teapot floating in space, as well as the pamphlet *Why I Am Not a Christian*.

ANSWER: **atheism** [or words forms, such as being an **atheist**; or any word forms for **denying the existence of God**]

[10] This student of Bertrand Russell included the "duckrabbit" illusion as one of the numerous philosophical problems discussed in his posthumously-published *Philosophical Investigations*.

ANSWER: Ludwig **Wittgenstein** [or Ludwig Josef Johann **Wittgenstein**] <JG, Philosophy>

8. While on this vehicle, a man tells the story of how his fascination with maps led to him making a boat trip into Africa. For 10 points each:

[10] Name this "cruising yawl" on the Thames. This boat is the frame setting of a novel about Marlow's expedition for the sailor Kurtz.

ANSWER: the **Nellie**

[10] Marlow searches for Kurtz in this novel. At the end of this novel, Marlow conveniently tears off the postscript reading "Exterminate all the brutes!" from Kurtz's personal pamphlet before giving it to Kurtz's wife.

ANSWER: **Heart of Darkness**

[10] *Heart of Darkness* is a novel by this British-Polish author.

ANSWER: Joseph **Conrad** [or Józef Teodor **Konrad** Korzienowski] <EA, Long Fiction>

9. One character in this franchise has become the subject of numerous memes, due to such quips as “I don’t like sand. It’s coarse and rough and irritating and it gets everywhere.” For 10 points each:

[10] Name this franchise, whose movies like *The Phantom Menace* and *Revenge of the Sith* are the subject of “prequel memes.”

ANSWER: **Star Wars** [or *Star Wars Episode I: The Phantom Menace*; or *Star Wars Episode III: Revenge of the Sith*]

[10] In *Revenge of the Sith*, Chancellor Palpatine tells Anakin about this figure, whose story became a popular cospasta on Reddit. Ironically, this figure “could save others from death, but not himself.”

ANSWER: Darth **Plagueis** the Wise [accept: “Did you ever hear the tragedy of Darth **Plagueis** the wise?”]

[10] The climax of the prequel films occurs on this volcanic planet, where Anakin and Obi Wan duel after Order 66 is executed. During that climax on this planet, Obi Wan says the eternal lines “It’s over Anakin! I have the high ground!”

ANSWER: **Mustafar** <EA, Trash>

10. George Lambert helped provoke the second war between Britain and this country. For 10 points each:

[10] Name this country, which fought three wars against the British Empire, culminating in the capture and looting of Mandalay. This country had previously been ruled by the Konbaung Dynasty.

ANSWER: **Myanmar** [Accept **Burma**]

[10] British colonial expansion in Southeast Asia also saw the establishment of this city-sized island as a colony by Stamford Raffles. The Imperial Japanese Army forced Arthur Percival to surrender this British colony in 1942.

ANSWER: **Singapore**

[10] The British also had a protectorate over this Southeast Asian kingdom, which the Brooke family governed as the White Rajahs. It shares its name with a state of East Malaysia.

ANSWER: Kingdom of **Sarawak** <GP, World History>

11. One of the most popular viewpoints of this national park is Tunnel View, which allows viewers to glimpse several of its most iconic rock formations. For 10 points each:

[10] Name this national park that contains granite formations such as El Capitan. This park’s namesake waterfall is the highest in North America.

ANSWER: **Yosemite** National Park

[10] Yosemite is located in this mountain range of eastern California, which includes Mount Whitney.

ANSWER: **Sierra Nevada**

[10] Across the Sierra Nevada from Yosemite, but still in California, is this saltwater lake known for its tufa towers. A widely-publicized, but later debunked, scientific paper claimed that a bacteria found in this lake could live using arsenic instead of phosphorus.

ANSWER: **Mono** Lake <JL, Geography>

12. This quantity was first proposed to balance out an equation that uses the Ricci tensor and the metric tensor to predict the geometry that spacetime obeys. For 10 points each:

[10] Name this value, symbolized lambda. It represents the energy density of space in general relativity.

ANSWER: **cosmological constant**

[10] The cosmological constant was put forth by this physicist to maintain a static universe in his theory of general relativity. His namesake field equations explain the effects of gravity.

ANSWER: Albert **Einstein**

[10] The cosmological constant was proposed to balance the attractive forces of gravity and the forces of this phenomenon. Hubble’s law is a consequence of the fact the universe is undergoing this phenomenon, which causes galaxies to drift apart.

ANSWER: **expansion** of the universe [accept **cosmic expansion**] <DB, Physics>

13. Eric Korngold's score for this movie was lauded for its innovative application of Wagnerian leitmotifs and other operatic features. For 10 points each:

[10] Name this film. An iconic scene in this film sees its protagonist, played by Errol Flynn, climb up the vines on a castle wall to meet his love at her balcony.

ANSWER: *The Adventures of **Robin Hood***

[10] In *The Adventures of Robin Hood*, Robin wins an archery contest by using his last arrow to do this action to his opponent's arrow. One stuntman claimed that the first arrow was made from bamboo to make it extra wide.

ANSWER: **splitting** the arrow with his own arrow [accept similar answers]

[10] After the archery contest, Robin is arrested by Sir Guy of Gisbourne, played by Basil Rathbone. Rathbone is better known for his portrayal of this detective in films like *The Hound of the Baskervilles*.

ANSWER: **Sherlock Holmes** [accept either] <DB, Other Fine Arts>

14. Answer the following about the history of medieval navies. For 10 points each:

[10] The naval history of the Ming Dynasty saw this man lead seven treasure voyages around the Indian Ocean. This Muslim captain defeated the pirate Chen Zuyi and brought exotic animals from Africa to the Chinese court.

ANSWER: **Zheng He** [accept **Cheng** Mao or **Ma** He]

[10] This empire's monarch Abubakari II led a fleet of 200 ships to sail across the Atlantic Ocean, though they never returned. His successor Mansa Musa became this empire's most famous ruler after his extravagant 1324 hajj.

ANSWER: **Mali** Empire

[10] Eustace the Monk was a naval commander for these two European nations in the early 13th century. These two countries later fought the naval battles of Arnemuiden and Sluys in the 14th century.

ANSWER: Kingdom of **England** AND Kingdom of **France** [prompt on an answer of only one country] <GP, Ancient/Other History>

15. This character forces his sickly young son Linton to marry Catherine, and when Linton dies shortly afterwards, he inherits Catherine's estate. For 10 points each:

[10] Name this diabolical landlord, who rents out Thrushcross Grange to Mr. Lockwood in the frame story of a certain novel.

ANSWER: **Heathcliff**

[10] Heathcliff's initial love for the elder Catherine Earnshaw, and subsequent revenge on her family, who wronged him, is the subject of this only novel by Emily Brontë.

ANSWER: **Wuthering Heights**

[10] *Wuthering Heights* is mostly told from the perspective of this housekeeper and servant at Thrushcross Grange, who details her experience with the Earnshaws to Mr. Lockwood.

ANSWER: **Nelly Dean** [accept either] <EA, Long Fiction>

16. This plan was scrapped after Owen Roberts joined the majority ruling for *West Coast Hotel v Parrish*, deemed "the switch in time that saved nine." For 10 points each:

[10] Name this plan, whereby a president would have added more seats to a certain body in order to increase the chance of his legislation passing through.

ANSWER: **court-packing** plan [accept descriptions that involve **packing** the Supreme **Court**; accept **Judicial Procedures Reform Bill** of 1937]

[10] This President proposed the court packing scheme in his ninth fireside chat. He would later lead the United States through the majority of World War II,

ANSWER: **Franklin Delano Roosevelt** [or **FDR**; prompt on **Roosevelt**]

[10] *West Coast Hotel v. Parrish* also ended an era named for this court case. Justice Oliver Wendell Holmes's dissent in this case discussed Herbert Spencer's *Social Statics*.

ANSWER: **Lochner** v. *New York* <AN, American History>

17. The influential musical scale theorist Nicolas Slonimsky wrote a set of variations on a tune that he heard while visiting this country, "My Toy Balloon." For 10 points each:

[10] Name this country. Ottorino Respighi wrote a piece inspired by this country that depicts the Butantã snake farm near the University of Sao Paulo in its second movement.

ANSWER: **Brazil** [or **Brasil**; or Federative Republic of **Brazil**; or Republica Federativa do **Brasil**; or **Vera Cruz**]

[10] This Brazilian composer wrote the nine-movement *Bachianas Brasileiras* [bahk-ee-ah-nas brah-see-lair-us], which he wrote so haphazardly that performers have to prepare the pieces far in advance to account for all of his typos.

ANSWER: Heitor **Villa-Lobos**

[10] Villa-Lobos' *Bachianas Brasileiras* have often been seen as being based on this two-book collection by J.S. Bach, featuring a prelude and fugue in every major and minor key for each book.

ANSWER: *The **Well-Tempered Clavier*** <DB, Auditory Fine Arts>

18. In this play, the valium-addicted Harper Pitt imagines going to Antarctica, where she meets Mr. Lies and sees the ozone hole. For 10 points each:

[10] Name this Tony Kushner play about the lawyer Roy Cohn, which is separated into the sections "Millennium Approaches" and "Perestroika."

ANSWER: ***Angels in America: A Gay Fantasia on National Themes***

[10] Throughout the play, Roy Cohn is haunted by the ghost of this figure, whom he had tried for espionage. Along with Louis Ironson, this figure prays the kaddish following Roy's death.

ANSWER: **Ethel Rosenberg** [accept either underlined portion]

[10] In order to avoid being stigmatized for having this disease, Roy claims to have liver cancer. In the play, Roy hoards AZT, which can be used to treat this sexually transmitted disease.

ANSWER: **AIDS** [or **acquired immunodeficiency syndrome** or **HIV** or **human immunodeficiency virus**] <WG, Drama>

19. In adults, these cells are produced in the dentate gyrus. For 10 points each:

[10] Identify these cells that contain dendrites and axons. They are the primary component of nervous tissue.

ANSWER: **neurons** [prompt on nerve cells]

[10] Pairs of communicating neurons are separated by one of these junctions. Neurotransmitters are released into these structures' namesake clefts.

ANSWER: **synapses** [or **synaptic** clefts]

[10] This form of neural plasticity with a three-word name increases the strength of synaptic connections between neurons. This process causes neurons to express more AMPA receptors.

ANSWER: **long-term potentiation** [or **LTP**] <GC, Biology>

20. This figure forced his wife Sita to undergo a trial by fire to prove her purity after reclaiming her from the demon Ravana. For 10 points each:

[10] Name this character, who fights the demon-king Ravana in his namesake epic.

ANSWER: **Rama** [or **Ramayana**]

[10] The *Ramayana* is an epic central to the traditions of this major world religion.

ANSWER: **Hinduism**

[10] While in exile, Sita took refuge near the ashram of this sage, who is traditionally said to be the author of the *Ramayana*. This sage later taught Sita's twin boys, Lava and Kusha, to sing the story of Rama.

ANSWER: **Valmiki** <TB, Mythology>