

ACF Winter 2010: Temporary Autonomous Zone

Edited by Andrew Hart, Rob Carson, Trevor Davis, Dennis Jang, and Eric Mukherjee

Packet by Carleton (Austin Bell, Frank Firke, Carsten Gehring, and Andreas Stoehr), Sandy Huang, and Washington University (Gordon Arsenoff, David Mayer, Rohit Ray, and Charles Hang)

Tossups

1. One character in this work discusses devotion with Emily in telling how one of his ancestors is stitched in the Bayeux Tapestry. The imaginary Mr. Lies appears to one character in this work during a hallucination set in Antarctica, while the story of the 1906 San Francisco earthquake is retold to Belize in another part of it. The ghost of Ethel Rosenberg haunts the Mormon lawyer protagonist of this work, who had offered a post in the Justice Department to Joe Pitt, who turns it down but is left by his wife Harper. Prior Walter leaves his AIDS-ridden partner Louis at the end of the work, which stars Roy Cohn. “Millennium Approaches” and “Perestroika” are the two parts of, for 10 points, which play, subtitled “A Gay Fantasia on National Themes” and written by Tony Kushner?
ANSWER: Angels in America
2. One of this artist's most famous works was later rendered on the sides of subway cars by Fab Five Freddy. This artist also appeared in a series of ads for his collaboration with Jean-Michel Basquiat that featured both dressed in boxing gear. This artist chose photos from the AP wire that were too grotesque to be printed for his *Death in America* series. At the *American Supermarket* show, he displayed both real and fake boxes of Brillo soap pads. One of this man's films depicts DeVeren Bookwalter receiving fellatio for 35 straight minutes. This director of *Sleep* and *Blow Job* included Billy Name and Edie Sedgwick among his namesake Superstars, who generally hung out at his Factory. For 10 points, name this Pop artist best known for screen prints of Marilyn Monroe and Campbell's Soup Cans.
ANSWER: Andy Warhol [or Andrew Warhola]
3. This belief was officially installed in one land with the Synod of Beth Lapat, presided over by Barsauma and other members of the school of Nisibis. This belief was attacked by Philip Sidetes and by Proclus, and *The Bazaar of Heracleides* is an apology for it. The actual nature of its main doctrine is indeterminate because of the use of the word *prosopon*, and this heresy was attacked in twelve anathemas. Theodore of Mopsuestia was a precursor of this heresy, and it involved the rejection of the title *Theotokos*, leading to it being denounced by Cyril of Alexandria at the Council of Ephesus. This heresy was prominent in Antioch and the east, and it held that Christ had two distinct natures. For 10 points, identify this heresy named for a Patriarch of Constantinople.
ANSWER: Nestorianism [accept word forms]
4. One section of this battle focused on trying a small ride called the Dead Man. One side was supplied by what came to be known as the Sacred Road. The original commander for one side in this battle, Emile Driant, was killed in the initial stages, and his replacement, Fernand de Langle de Cary, was removed after abandoning the Woevre plain. Near the end of this battle, Charles Mangin recaptured the forts Douaumont and Vaux. Robert Nivelle took control of one side during this battle after the promotion of another man, the latter of whom is often credited with Nivelle's quote of “They shall not pass.” This battle occurring on the Meuse river in France made the name of Philippe Pétain. For 10 points, name this extremely bloody battle of World War I.
ANSWER: Battle of Verdun
5. One of this man's protagonists makes references to cases like “the Trevor Richardson affair.” That protagonist, nicknamed “Puffin,” encounters a wounded soldier whom he believes to be his childhood friend Akira in one of this author's works, and later learns that the warlord Wang Ku kidnapped his mother. This creator of Christopher Banks wrote a work titled after a Judy Bridgewater song that opens at Hailsham, and sees Kathy become a “carer” while Ruth and Tommy become donors. This author of *When We Were Orphans* is best-known for a novel that explores the unrequited love of Miss Kenton and the protagonist, who works at Darlington Hall. For 10 points, name this author of *Never Let Me Go* and a novel about the butler Stevens, *The Remains of the Day*.
ANSWER: Kazuo Ishiguro [accept names in either order]

6. One work about this concept considered a quote from Longfellow's "The Builders" and an anecdote in which Fania Pascal was told that she didn't "know what a dog that has been run over feels like" as examples of Ludwig Wittgenstein's philosophical opposition to it. In a 2005 interview on *The Daily Show*, the author of that work claimed that the desire to "produce an impression" is what distinguishes this concept from spin. That work also distinguishes this concept from Max Black's concept of "humbug" and notes that while liars specifically seek to avoid the truth, practitioners of this do not care about the truth at all. For 10 points, identify this subject of a Harry Frankfurt essay that also titles a Showtime show hosted by Penn & Teller, and can be abbreviated "B.S."

ANSWER: **bullshit** [accept word forms; also accept **On Bullshit**]

7. Along with Hemin, this compound is needed to grow hemophilus influenzae in culture. It commonly serves as a donor for ADP-ribosyltransferase enzymes. This compound has a single absorption peak at 259 nm and gains a peak at 340 nm upon being converted to a related molecule. The ratio between it and that related molecule is around 700, and one class of molecules activated by it are histone deacetylases important in calorie restriction known as sirtuins. Its levels control the rate of glycolytic enzymes and the Krebs cycle as a general indicator of redox states in the cell. Its reduced form is good for ten electrons in the electron transport chain. For 10 points, name this oxidized electron carrier which is similar to NADP.

ANSWER: **NAD** [or **Nicotinamide Adenine Dinucleotide**; accept **NADH**]

8. This economist connects *cosmos* and *taxis* with *thesis* and *nomos* in three volumes entitled "Rules and Order." He wrote "The Mirage of Social Justice" in a work entitled *Law, Legislation, and Liberty*. Oskar Ryszard Lange was rebuked by this economist in an essay entitled "The Use of Knowledge in Society" which is contained in a work entitled *Individualism and Economic Order*. Three parts entitled "The Value of Freedom," "Freedom and the Law," and "Freedom in the Welfare State" comprise his *The Constitution of Liberty*, which he appended with the postscript "Why I am Not a Conservative." For 10 points, name this Austrian-born economist who used Nazi Germany and the Soviet Union as examples of arguing that collectivism tends to lead to tyranny in *The Road to Serfdom*.

ANSWER: Friedrich von **Hayek**

9. This man compared the actions of Joe McCarthy to "burning down the house to kill the rats." In response, Richard Nixon called him "a PhD from Dean Acheson's cowardly college of Communist containment" and attacked him for testifying as a character witness for Alger Hiss. This politician vetoed a bill requiring loyalty oaths for teachers and state employees while serving as governor. This man confronted Valerian Zorin, calling for him to "answer yes or no" during the Cuban Missile Crisis, while Ambassador to the United Nations, an organization he helped found. This Illinois politician was defeated for the presidency by a man who would go on to build the Interstate Highway System. For 10 points, name this Democrat who ran twice for the presidency against Eisenhower.

ANSWER: Adlai Ewing **Stevenson II**

10. This quantity is equal to L plus one plus the number of radial nodes of the wavefunction. In one model, the square of this quantity is inversely proportional to energy with a constant of thirteen point six. Transitioning between two different values of it gives a frequency proportional to the difference between the reciprocals of the square of two different values of it, via the Rydberg formula. The azimuthal number is bounded by one minus this value, for which different values also generate the Pfund, Balmer, and Lyman series. This number determines the energy level of an orbital, and along with spin, angular momentum, and magnetic quantum numbers completely describe an electron in an orbital. For 10 points, name this quantum number symbolized n .

ANSWER: **principal** quantum number [or **n** before read; accept **energy level** until mentioned]

11. Philip Pickett has suggested an interpretation of this collection involving allegorical tableaux, the fifth section of which can be interpreted as Hercules's choice between Vice and Virtue. One section of this collection may have intended for a bird flageolet or for two recorders tied together to be played when this work calls for a "fiauto d'echo," or echo flute. One solo in another part was likely written for an instrument built by Michael Mietke, and that harpsichord virtuosic solo appears in the fifth section of this work. Its last section lacks violins, while the first section was expanded to be the only section with four movements in this work. For 10 points, name this set of six concerti composed for a German margrave by Johann Sebastian Bach.

ANSWER: **Brandenburg** Concertos [or **Brandenburg** Concerti; or **Brandenburg** Concerto No. 4 before "natural trumpet"]

12. This ruler created the *siglos* and *daric* coins. Economic administration in this ruler's domain was headed by his uncle Pharnaces, as recounted in the Fortification Tablets. This ruler faced a revolt from Vahyazdâta, and he sent Scylax of Caryanda to explore the Indus. This man's Behistun Inscription records how he killed the Magian usurper Gaumata, who was supposedly impersonating Smerdis. This leader of an expedition against the Scythians divided his empire into twenty satrapies, and he built a noted network of roads. This man successfully claimed the throne of Cambyses II. He was the target of the Ionian Revolt, after which he launched an expedition under Datis that was defeated by Miltiades at Marathon. For 10 points, name this Persian ruler who was succeeded by his son Xerxes I.
ANSWER: **Darius I** [or **Darius the Great**; prompt on **Darius**]
13. This man proved that a function can be represented as a unique series of trigonometric functions. Along with Bernstein, this man names a theorem stating that two sets are equinumerous if each is equinumerous to a subset of the other. This man showed that there is a bijection between the points of the unit segment and all the points of an n -dimensional space. His namesake theorem states that the cardinality of a set is less than that of its power set. He introduced the idea that there are no sets with cardinalities between those of the naturals and the reals, the continuum hypothesis. For 10 points, name this German-born mathematician who used a diagonal argument to prove the uncountability of the reals.
ANSWER: Georg Ferdinand Ludwig Phillip **Cantor**
14. Roderick Chisolm wrote about "The Problem of" this theory. A "constructive" form of it was developed by Bas van Fraassen. This theory is the first title concept of a work that describes a genius named Jones in a Neo-Rylean society and also discusses "the myth of the given;" that work pairs it with "The Philosophy of Mind" and was written by Wilfrid Sellars. The "radical" form of this theory is associated with neutral monism, and appears in the late essays of William James. This philosophical school is associated with a work that discusses primary and secondary qualities and refutes Descartes' argument for innate ideas. For 10 points, name this epistemological position which is supported by the *tabula rasa* of John Locke, and which argues that all knowledge originates from experience.
ANSWER: **empiricism**
15. In one novel, this writer depicted a titular character observing a blackbird, a gecko, a cheese shop, and a pair of naked breasts. In another novel by this author, Estomac marries a snail cooker who is the sister of a later lover of Violante. In another novel, this writer contrasted the robot-like reading approach taken by Lotaria with the pleasure-seeking approach taken by Lotaria's sister Ludmilla. He explained, "It is not the voice that commands the story: it is the ear," in a novel that depicted Kublai Khan's attempts at soliciting the unambiguous reality of certain titular entities from the persistently uncertain Marco Polo. For 10 points, name this Italian author who wrote *Mr. Palomar*, *The Baron in the Trees*, *If on a Winter's Night a Traveler*, and *Invisible Cities*.
ANSWER: Italo **Calvino**
16. One of this man's early works shows what appears to be a windmill amidst various blotches. Two of his works with the same title, painted just a year apart, show this man's progression away from Cubism. Several late works by this painter of *Moulin au Soleil Rouge* and two versions of *Still Life with Ginger Pot* were named for places, including *Place de la Concorde* and *New York I*. Though he had a vehement disagreement with another artist about diagonals, many of this man's most famous works are geometric compositions inside lozenges. His most iconic painting features colors intended to evoke the traffic lights of the namesake street. For 10 points, name this Dutch artist of *Broadway Boogie Woogie* and *Composition in Red, Yellow, and Blue*, the most famous practitioner of De Stijl.
ANSWER: Pieter Cornelis "Piet" **Mondrian** [or **Mondriaan**]
17. A common way to analyze these substances is Epton's two-phase titration method. For high temperatures and pressures, their effects can be measured by a captive drop method. By including diffusion, Morris et al. expanded on the a model for these substances using pulsating bubble systems; that computational model of them is named for Otis. SP-A is the most common protein with this characteristic and is used in the immune system, and DPPC is the active part of another biological type. These substances have a radically lessened effect below the CMC. They are frequently made up of molecules with hydrophobic and hydrophilic components, which adsorb at the liquid-liquid interfaces. For 10 points, what are these substances that lower a solution's surface tension?
ANSWER: **surfactants** [or **micelles**]

18. Every eight years at Delphi, a festival known as the Herois was held in this figure's honor. This figure was discovered washing off blood in the river Asopus. Prosymnus guided this figure's son to the entrance to the underworld in the Alcyonian Lake, after which that son rescued this figure and brought her to Olympus, where she became the goddess Thyone. Hera visited this daughter of Cadmus in the guise of an old crone, and managed to provoke such curiosity in this woman that she forced her lover to swear an oath on the River Styx to reveal himself in all his splendor. That revelation led to this woman's death, so her son was born from her lover's thigh. For 10 points, name this mortal lover of Zeus and mother of Dionysus.

ANSWER: Semele

19. One reform proclamation in this polity was the "Noble Edict of the Rose Chamber," and a period of reform here was known as the Tulip Period. This polity employed local governors called Armatoles. Karayazici led bandits here in the Jelali revolts. This nation used land grants called Timar, and it employed the *devsirme* system. Treaties governing the rights of foreigners here were known as *Capitulations*. This nation undertook the Tanzimat reforms, and its government was referred to as the Sublime Porte. Local rebellions against this polity were led by Alexander Ypsilanti and by Muhammad Ali. The dissolution of this empire was accomplished by the treaties of Lausanne and Sèvres. For 10 points, name this "sick man of Europe," an empire lasting until 1922 in Istanbul.

ANSWER: Ottoman Empire

20. The protagonist of one novel by this author regularly meets with an intellectual group called The Table at the EL-AY Café; later, that protagonist, Julie Summers, marries the mechanic Abdu. This author wrote a novel in which Ann Davis has an affair with the painter Gideon Shibalo in a work that centers on Jessie Stillwell. This author of *The Pickup* and *Occasion for Loving* wrote of Jacobus finding a dead body on Mehring's farm in another of her novels. Daniel steals a gun from the central family of another of her books, which takes its epigraph from the *Prison Notebooks* and sees the title servant protect Bam and Maureen Smales during an uprising. For 10 points, name this South African author of *The Conservationist* and *July's People*.

ANSWER: Nadine Gordimer

21. During this man's rule, compañías deslindadoras were set up to survey and privatize land that was often already settled by poorer citizens of his country. This man created an office under himself to which Ramón Corral was appointed. Corral was a member of this man's supporting group of científicos. This man was succeeded after his first term in office by Manuel González. This ruler had unsuccessfully used the Plan de Noria against one opponent, but the Plan de Tuxtepec helped this ruler replace Sebastián Lerdo de Tejada as president. An interview with James Creelman inspired Francisco Madero to run against this man. For 10 points, name this Mexican president who, despite once advocating for no reelection of presidents, ruled Mexico for most of the time between 1877 and 1911.

ANSWER: José de la Cruz Porfirio Díaz

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Bonuses

1. Name some Platonic dialogues, for 10 points each.
[10] This work considers whether people will act immorally when there are no consequences with the allegory of the Ring of Gyges. It also discusses the Allegory of the Cave and advocates rule by philosopher kings.
ANSWER: the Republic [or Politeia]
[10] In this dialogue, Socrates teaches geometry to a slave and argues both for and against the notion that virtue can be taught.
ANSWER: Meno
[10] This dialogue attempts to define knowledge, proposing such definitions as “knowledge is perception” and “knowledge is true judgment with an account,” but it ultimately reaches no conclusion. It is cited in many modern works as the basis of the “justified true belief” definition of knowledge.
ANSWER: Theaetetus
2. Plays by this founder of the Bow Street Runners include *The Author's Farce*, *The Life and Death of Tom Thumb*, and *Rape upon Rape*. For 10 points each:
[10] Name this author of the novel *Amelia* who wrote about Sophia Western, Squire Allworthy, and the title foundling in his *Tom Jones*.
ANSWER: Henry Fielding
[10] This Fielding novel compares Robert Walpole to its title character, the leader of a gang of thieves who marries Laetitia Snap and constantly attempts to ruin the honest jeweler Mr. Heartfree.
ANSWER: Jonathan Wild [accept *The Life of Mr. Jonathan Wild the Great*; or *The Life and Death of Jonathan Wild, the Great*]
[10] In his novels *Joseph Andrews* and *Shamela*, Fielding directly satirized this author of such epistolary novels as *Pamela* and *Clarissa*.
ANSWER: Samuel Richardson
3. Industrially, it is synthesized via the Olin-Raschig process using sodium hypochlorite and ammonia. For 10 points each:
[10] Name this compound, important in one reaction for the reduction of ketones to alkanes.
ANSWER: hydrazine [or N₂H₄; or diazane]
[10] Give the name of that reduction, which usually takes place in a basic solution and is named for a German chemist and a Russian chemist.
ANSWER: Wolff-Kishner reduction
[10] The Huang-Minlon modification of the Wolff-Kishner reduction involves conducting the reduction in the ethylene type of this molecule, which is also used in antifreeze. Other types of this molecule can be created using the Sharpless and Prins reactions.
ANSWER: glycol [or diol; accept ethylene diol; or ethylene glycol; or ethene glycol; or ethene diol]
4. Under Narai the Great, this kingdom welcomed foreign influence, and Naresuan the Great drove the Burmese Konbaung dynasty out of its capital. For 10 points each:
[10] Name this southeast Asian nation that lasted from 1350 to 1767 and which sacked the Khmer capital at Angkor in 1431.
ANSWER: Ayutthaya Kingdom
[10] The Ayutthaya kingdom existed in this present-day country on the Malay Peninsula. Residents of the kingdom were known as Siamese.
ANSWER: Thailand
[10] Since 1782 Thailand has been ruled by the Chakri dynasty, which has consisted of nine kings of this name. The fourth king of this name, also known as Mongkut, was written about by Anna Leonowens.
ANSWER: Rama

5. Joan Gilling eventually hangs herself at the end of this novel. For 10 points each:

[10] The relationship between Buddy Willard and Esther Greenwood deteriorates at the end of this American novel by Sylvia Plath.

ANSWER: The **Bell Jar**

[10] The narrator of this Sylvia Plath poem states, “You do not do, you do not do / Any more, black shoe / In which I have lived like a foot / For thirty years,” in an attempt to describe a girl possessing an Electra complex.

ANSWER: “**Daddy**”

[10] This Plath poem describes its title entities as “too red in the first place, they hurt me.” and its narrator describes herself as a “thirty-year-old cargo boat” who has been “swabbed clear of [her] loving associations.”

ANSWER: “**Tulips**”
6. It is exemplified by the stickleback fish attacking anything with a red belly, be it fish or not, or yawning behavior in humans. For 10 points each:

[10] Name these sets of behaviors, in which a stimulus initiates a set of actions that must be driven to completion and cannot be stopped.

ANSWER: **Fixed action patterns** [or **FAPs**]

[10] The trigger for a fixed action pattern is given this name. The red belly of the stickleback fish is an example.

ANSWER: **sign** stimulus [or **releaser**]

[10] Along with Niko Tinbergen, this scientist studied fixed action patterns in the greylag goose, in addition to writing *On Aggression* and imprinting a bunch of baby birds so they would follow him around.

ANSWER: Konrad **Lorenz**
7. In the bottom right of this work, a yellow-and-white-clad figure drives a nail into a plank of wood, while in the background a man in black with a large nose points accusingly at the title figure. For 10 points each:

[10] Identify this painting in which a man in green on the right holds a rope tied to the title figure’s wrist with one hand, and with the other hand grabs at the neck of that figure’s bright-red tunic in preparation for the title action.

ANSWER: The **Disrobing of Christ** [accept *El Espolio*; or The **Spoliation**; or **Christ’s Disrobing**]

[10] This Cretan painter of *The Disrobing of Christ* depicted an ecstatic blue-clad St. John on the left side of his *Opening of the Fifth Seal* and painted his adopted hometown in *View of Toledo*.

ANSWER: El **Greco** [accept Domenikos **Theotokopolous**]

[10] Andrés Núñez commissioned this El Greco painting, the title action of which is performed by Saints Stephen and Augustine while a group of mourners gaze up at the triad of Christ, John the Baptist, and Mary.

ANSWER: The **Burial of the Count of Orgaz**
8. The second to last one was Parshvanath, who was originally part of the Kshatriya caste, while the twenty-fourth and last of them was originally known as Vardhamana before taking his more familiar name. For 10 points each:

[10] Name these beings whose deeds are recorded in the *Tattvartha Sutra*. The oldest one lived around 593 quintillion years ago. The first one was Lord Risabh, and the last was Mahavira.

ANSWER: **tirthankaras** [or **Jinas**; prompt on **ford-builders**]

[10] Tirthankaras are principal figures in this Indian religion, which has a “skyclad” sect that takes the principle of non-attachment to the max. They are most famous for emphasizing the doctrine of ahimsa, or non-violence.

ANSWER: **Jainism** [or **Jain** dharma]

[10] This most important Jain prayer praises the virtues of various groups of spirits and bows to them. This mantra “destroys all sin” and is the most important of “that which is auspicious.”

ANSWER: **Namokar** Mantra [or **Navakar** Mantra; or **Namaskar** Mantra]
9. Name some important figures in Catherine the Great’s Russia. For 10 points each:

[10] This lover of Catherine led the coup that overthrew Peter III and put her on the throne. He served as her advisor for the early part of her reign, when he helped found the Free Economic Society.

ANSWER: Grigory Grigoryevich **Orlov**

[10] Another lover of Catherine was this founder of New Russia who established Kherson and Sevastopol and created the Black Sea fleet. He lent his name to a battleship whose crew led a 1905 uprising.

ANSWER: Grigory Alexandrovich **Potemkin**

[10] Catherine’s most important general was this author of *The Science of Victory*, who led successful campaigns against the Ottomans, put down Pugachev’s rebellion, and defeated the Bar Confederation.

ANSWER: Alexander Vasilyevich **Suvorov**

10. This psychologist developed a namesake argument based on finding common ground. For 10 points each:
[10] Name this American psychologist who developed Nineteen Propositions and practiced a client-centered therapeutic approach in order to understand a person's personality.
ANSWER: Carl **Rogers**
[10] Carl Rogers was influenced by this Austrian psychologist who published works such as *The Myth of the Birth of the Hero* and *The Trauma of Birth*.
ANSWER: Otto **Rank**
[10] Otto Rank also influenced this American psychologist who wrote a thesis entitled "The Woman Movement from the Point of View of Social Consciousness."
ANSWER: Jessie **Taft**
11. In this novella, an odor of carbolic acid exudes from a strolling player. For 10 points each:
[10] The beauty of the Polish boy named Tadzio leads to the demise of the writer Gustave von Aschenbach in this German novel by Thomas Mann set in a titular Italian city.
ANSWER: **Death in Venice** [or *Der Tog in Venedig*]
[10] Narrated by Serenus Zeitblom, this Mann novel describes how Rudiger Schildknapp and Marie Godeau affect the life of the composer Adrian Leverkühn, who lived in madness for ten years prior to his death.
ANSWER: **Doktor Faustus**
[10] This Mann novel depicts Sieur Eisengrein taking advantage of the Crusades to send off Wiligis so he can impregnate Wiligis's incestuous sister named Sibylla, who later marries her son Gregorius, the titular character.
ANSWER: *The Holy Sinner* [or *Der Erwählte*]
12. It was derived by solving the hydrostatic equation alongside the equation of state for a relativistic Fermi gas, which gives a value proportional to one over the product of the mass of a hydrogen atom, squared. For 10 points each:
[10] Name this value equal to about 1.4 solar masses, which gives the upper limit for the size of a white dwarf. It balances gravitational collapse with electron degeneracy pressure.
ANSWER: **Chandrasekhar** limit
[10] This equation, which is important in the derivation of the Chandrasekhar limit, is the equivalent of Poisson's equation for a self-gravitating, spherically symmetric polytropic fluid.
ANSWER: **Lane-Emden** equation
[10] This object, also called SN2003fg, reached two solar masses before undergoing a supernova, meaning that it violates the Chandrasekhar limit. One explanation is that it spun rapidly.
ANSWER: **Champagne** Supernova
13. Nicholas Yonge popularized this form in Britain with the publication of his *Musica transalpina*. For 10 points each:
[10] Name this form of secular chamber music for voices that started in Italy. Composers in this form included Thomas Weelkes, Thomas Morley, and William Byrd.
ANSWER: **madrigals**
[10] This Italian composer published a book of *Madrigals of War and Love*. He also composed operas such as *The Coronation of Poppea* and *L'Orfeo*.
ANSWER: Claudio Giovanni Antonio **Monteverdi**
[10] Heinrich Schütz also composed some madrigals, but he is probably better known for writing the first German opera, based on this mythological character. Both Jacopo Peri and Richard Strauss composed operas about her.
ANSWER: **Daphne**
14. This goddess is served by Ganglati and Ganglot in the hall Eljudnir. For 10 points each:
[10] Name this goddess of Norse myth who told Hermod that she would release Balder only if everything in the world would cry after Balder's death.
ANSWER: **Hel**
[10] This dog that inhabits the Gniphelli guards the entrance to Niflheim. It will kill and be killed by Tyr during Ragnarok.
ANSWER: **Garmr**
[10] The bridge into Helheim, called Gjallarbru, was guarded by this giantess, whom Hermod bypassed on his way to meet up with Hel.
ANSWER: **Modgud**

15. It was divided into western and eastern sections by the Treaty of Meerssen, and it was split for good into Upper and Lower portions after the death of Bruno the Great. For 10 points each:
 [10] Name this territory oft-disputed between East and West Francia, ruled first as a kingdom by a namesake grandson of Louis the Pius, and later ruled as a duchy.
 ANSWER: **Lotharingia** [prompt on **Lorraine**]
 [10] Lothar II was a great-grandson of this Carolingian ruler who was crowned Holy Roman Emperor on Christmas day, 800.
 ANSWER: **Charlemagne** [or **Carolus Magnus**; or **Charles the Great**; or **Charles I**; prompt on **Charles**]
 [10] Lotharingia was briefly reunited with the rest of Charlemagne's empire in the 880s by this ruler, who inherited the territories by chance. This weak ruler was noted for twice buying off the Vikings, once during a siege of Paris.
 ANSWER: **Charles the Fat** [or **Charles III**; prompt on **Charles**]
16. The title character spends this play hanging out in a grove sacred to the Furies, where he's guarded by the chorus; that title character also tells Theseus that "only the gods can never age." For 10 points each:
 [10] Identify this second in a trilogy of plays, in which the blind title character curses out his son Polyneices and dies after hearing three peals of thunder.
 ANSWER: **Oedipus at Colonus** [accept **Oedipus Coloneus**; or **Oidipous epi Kolōnō**]
 [10] *Oedipus at Colonus*, like *Oedipus Rex* and *Antigone*, was written by this ancient Greek tragedian whose other surviving works include *Electra* and the fragmentary satyr play *The Tracking Satyrs*.
 ANSWER: **Sophocles**
 [10] The title character of this earliest surviving Sophocles play is consumed by shame and falls on his sword, a gift from Hector. Before killing himself, that title character gives his shield to Eurysaces, his son by Tecmessa.
 ANSWER: **Ajax** [accept **Aias**]
17. This character has the ability to remember everything he ever ate, which comes in handy sometimes. For 10 points each:
 [10] Name this character who hails from Frostbite Falls and attended Wossamatta U, an idiot with a heart of gold who hangs out with Rocky the flying squirrel.
 ANSWER: **Bullwinkle J. Moose** [or Bullwinkle J. **Moose**]
 [10] In *Rocky and Bullwinkle*, this man is Boris and Natasha's boss and the leader of Pottsylvania. He was played by Robert De Niro in the live-action movie.
 ANSWER: **Fearless Leader** [or **FL**; prompt on partial answer]
 [10] One member of this trio notes that "I like Bullwinkle but I don't like the Moose" in the song "Posse in Effect," which was the B-side to their single "No Sleep till Brooklyn." They consist of Mike D, Ad-Rock, and MCA.
 ANSWER: The **Beastie Boys**
18. To paraphrase Missy Elliott: "if you got a big list, let me search it in big O of $k \log n$ time." For 10 points each:
 [10] Big O of $\log n$ runtime is to be expected for this fast search algorithm, which requires a sorted list and operates by examining the middle element of the list, then splitting the list and repeating.
 ANSWER: recursive **binary** search algorithm [NOTE: don't say "recursive" when you're saying the answer]
 [10] Binary search is usually implemented in such a way that it calls itself, a technique known as this. This is also used in most versions of mergesort, quicksort, and the factorial function.
 ANSWER: **recursion** [accept word forms]
 [10] Peter developed the canonical version of this function, which for inputs m, n , returns itself evaluated at $m-1$ and 1 if m is greater than 0 and n is equal to zero. It is total recursive but not primitive recursive
 ANSWER: **Ackermann** function

19. This man led the seizure of New Sweden, and he established the first municipal government in what was to become New York City. For 10 points each:
[10] Name this final governor-general of New Netherland who failed to protect the colony from the British.
ANSWER: Peter **Stuyvesant**
[10] New Netherland was first transferred to the British in this 1667 treaty which ended the Second Anglo-Dutch War. This treaty was followed by the Treaty of Westminster after the Dutch retook and retransferred the colony.
ANSWER: Treaty of **Breda**
[10] This office of hereditary land holder in New York was established during the New Netherland period, and lasted until the conclusion of the Antirent War in 1846.
ANSWER: **patroons**
20. After Lane Coutell elaborates on a paper he wrote about Gustave Flaubert, one of the title characters of this work reveals that she's quit the theater group at school. For 10 points each:
[10] Name this novel in which one title character, who is first seen reading in the bathtub, pretends to be Buddy in consoling his sister about her acting career over the phone.
ANSWER: **Franny and Zooey**
[10] *Franny and Zooey* was written by this author, who also wrote the collection *Nine Stories* as well as a novel about Holden after his expulsion from Pencey Prep, *The Catcher in the Rye*.
ANSWER: J. D. **Salinger**
[10] Combined in a collection with *Seymour: An Introduction*, this novella is narrated by Buddy and details his trip to New York for Seymour's wedding, which doesn't take place because Seymour never shows up.
ANSWER: **Raise High the Roof Beam, Carpenters**
21. The heliopause is the upper limit for this entity's strength to push back the interstellar medium. For 10 points each:
[10] Name this stream of charged particles known for creating a vast bubble in the interstellar medium surrounding the solar system.
ANSWER: **solar winds**
[10] Solar winds create this vast bubble in the interstellar medium surrounding the solar system.
ANSWER: **heliosphere**
[10] The magnetohydrodynamic influence of solar winds twists the Sun's extended field into this shape, which may be responsible for the fact that the sun's equator rotates faster than the poles.
ANSWER: **Parker** spiral