

ACF Winter 2010: Temporary Autonomous Zone

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

Packet by UCLA (Ray Luo, Ian Drayer, Christine Tarleton, and Mik Larsen), Texas (Albert R. Bayer, Mark Molaro, Ralm Ricarte, and Yogesh Raut), and Iowa (Paul Drube, Peter Montag, Martin Whitman, Dan Hogan, and Quentin Roper)

Tossups

1. During rehearsals for the premiere of this work, the violinists tied handkerchiefs to their bows as a sign of protest. One section of this work sees horns and cellos divided into four different parts, while its third section contained brass fanfares which were deleted at the suggestion of Varese. Opening in 6/8, a violin solo appears roughly sixty bars into this piece following the *Tres lent* introduction. Daybreak is represented by the tremolo in the strings that coincides with the establishment of the D-flat major key in the first movement of this work, of which Satie “particularly liked the bit at a quarter to eleven.” “Play of the Waves” and “Dialogue of the wind and sea” are the last two sections of, for 10 points, which three movement composition by Claude Debussy?
ANSWER: *La Mer* [accept *The Sea* before “sea”]
2. This artist depicted himself sleeping below grazing animals, fir trees, and a lilac sky in a painting inspired by his honeymoon. A fish holds a candle up to a red easel in the background of another of this man’s works. This artist depicted the Eiffel Tower in the back window of a canvas that contains a self-portrait at an easel. This artist of *The Poet Reclining* and *La Mariée* created a 70-foot mosaic for Chicago called *The Four Seasons*. A green-clad man carries a sack below a burning synagogue in a work by this man whose central figure wears a prayer shawl. His most famous work shows the Tree of Life being held by a green-skinned man who looks past a small row of houses at a sheep. For 10 points, name this Vitebsk-born Jewish painter of *White Crucifixion* and *I and the Village*.
ANSWER: Marc **Chagall** [or Moshe **Shagal**]
3. In one work, this author claimed to be contaminated by the “corrosive power of words” and asserted that the male body exists in a form that rejects existence. In that work, he also expressed his desire to become a “man of action.” As a child, one of this man’s protagonists watches a group of men carrying a portable shrine who trample his family’s garden. That character first ejaculates to a Guido Reni painting of Saint Sebastian and becomes infatuated with his classmate Omi. This author also created a character who antagonizes Father Dosen and befriends the clubfooted Kashiwagi. This author of *Sun and Steel* described Kochan’s struggles with homosexuality in *Confessions of a Mask*. For 10 points, name this man who wrote about Mizoguchi in *Temple of the Golden Pavilion*.
ANSWER: Yukio **Mishima** [or Kimitate **Hiraoka**; accept both names in either order]
4. One leader of this group later ran a pyramid scheme at Omnitrition International. Another leader of this group claimed that his real name was Shapoznikoff, and that he was known by a “slave name.” That leader of this group successfully defended himself at a trial by proving that the CIA was an unlawful organization. This group was sometimes known as the Groucho Marxists. They nominated a pig named Pigasus for president during a “Festival of Life” at the 1968 Democratic National Convention, leading to the arrest of some of them as members of the Chicago Seven. This group included Jerry Rubin and the author of *Steal This Book*, Abbie Hoffman. For 10 points, name this 1960’s counter-culture group officially known as the Youth International Party.
ANSWER: the **Yippies** [accept **Youth International Party** before it is read]
5. This work argues that words that do not represent real things, like “fortune,” “prime mover,” and “element of fire,” should not exist. The second book of this work lists twenty-eight hot things and contains a Table of the Degrees and Comparisons of Heat. This work notes differences in how ants, spiders, and bees collect and process resources around them. This work claims that the Sophistical, Empirical, and Superstitious Systems of Philosophy hinder civilization’s ability to advance. That critique is called the Idols of the Theater, which the author lists in this work alongside the Idols of the Tribe, Cave, and Marketplace. This work champions a method of inductive reasoning. For 10 points, name this work of scientific philosophy, an update to a work of Aristotle written by Francis Bacon.
ANSWER: **Novum Organum** [or *The New Organon*]

6. One unproven generalization of this theorem is equivalent to the statement that chi of G is equal to or greater than the Hadwiger number of G. It is equivalent to the statement that no snark is planar. Another generalization of this theorem was proven by Ringel and Youngs and depends on the floor of an expression involving the square root of 1 plus 48g. It was proven by finding an unavoidable set of reducible configurations, using the method of discharging; a later proof improved on the quartic time algorithm used. It is a special case of the Heawood conjecture. For 10 points, name this theorem proved by Appel and Haken via computer, which gives the minimum number of shades necessary to produce a map.
ANSWER: **four-color** theorem [or **Guthrie**'s problem]
7. One of these figures revealed such texts as "Ornament for Clear Realization" and "Distinguishing the Middle and the Extremes," two of his namesake *Five Treatises*. In one tradition, these figures must vow to uproot "endless blind passions." One of these figures holds a thunderbolt scepter and is the patron figure of the Shaolin school. These figures must practice the six perfections and travel through five *margas*, which correspond to the ten *bhumi*. One of them, Maitreya, will arrive in the future. Another of them, the dedicatee of the *Heart Sutra*, represents "infinite compassion." For 10 points, name these Mahayana Buddhist figures exemplified by Avalokitesvara, who have achieved some degree of enlightenment but put off nirvana in order to help others.
ANSWER: **bodhisattvas** [accept **Buddhas** until "endless blind passions"]
8. In one of this author's stories, a European traveler poses as a statue to avoid embarrassment while swimming nude. In another work by this author of "My Metamorphosis," a character offers Judge Lynch seventeen hundred dollars and a watch to save his friend, who is hanged for highway robbery on Marley's Hill. In another of this author's works, residents of a town give three to five odds that a pregnant woman will "get through with" giving birth. In another short story by this author, Uncle Billy steals the party's provisions, leaving the group stranded in the snow, while "The Innocent" and John Oakhurst go for help. He told of Cherokee Sal's child in one of his stories. For 10 points, name this author of "Tennessee's Partner," "The Luck of Roaring Camp," and "The Outcasts of Poker Flat."
ANSWER: Bret **Harte**
9. This man worked with William Gifford on the weekly review *The Anti-Jacobin*. This man's cousin Stratford was a longtime minister to the Ottoman Empire, and this man's son was the Governor-General of India during the Sepoy Mutiny. He led a group that refused to join the Ministry of All the Talents, and he supported the Greek War of Independence. This British politician's opposition to Spanish colonization in Latin America led to the creation of the Monroe Doctrine. He was briefly prime minister after Lord Liverpool, in whose cabinet he had prominently served. This Tory feuded with the man who preceded him in his most famous role, going so far as to fight a duel with that rival. For 10 points, name this British Foreign Secretary of the 1820's, the successor to Castlereagh.
ANSWER: George **Canning**
10. Using this system to model solvated electrons in a solution of lithium in ammonia correctly derives the wavelength of said solution's color. Modeling an alpha particle in a nucleus as this system leads to the Geiger-Nuttall formula. Assuming a deep well in the quantum-confined Stark effect allows the estimation of its energies by treating it as this system, while an iterated version of this system in one dimension gives the Kronig-Penny model. The square root of 2 over L is the normalizing constant for this system, whose energy levels correspond to n squared over 8 m L. For 10 points, name this quantum system in which an object is trapped in a square container.
ANSWER: **Particle in a Box** [or [in]**finite Potential** Well; or **Square** Well; or **Rectangular** well]
11. In one scene in this work, one character reveals that she does not trust the valet Laurent and believes that Daphne and her little husband are slandering her family. Argas, a political exile, has his political secrets kept in a casket entrusted to one character in this work, whose mother, Madame Pernelle, eventually believes that the title character is a villain when being evicted by the bailiff Loyal. Damis witnesses the title character's attempted seduction of his mother, which occurs in spite of the title character's betrothal to Valere's daughter Mariane. For 10 points, name this play about Orgon and the title hypocritical houseguest, a play by Moliere.
ANSWER: **Tartuffe**

12. A series of reforms in this country was known as the "Revolution on the March." Benjamin Herrera led a force of plantation growers in a civil war here that featured the Battle of Palonegro and fought against Rafael Nuñez. The Declaration of Sitges created the National Front here, ending another conflict in this nation that began with the assassination of Jorge Eliecer Gaitán. In addition to experiencing the War of a Thousand Days and "La Violencia," this country's war of independence made a hero of Francisco de Paolo Santander and was eventually decided at the Battle of Boyacá. The more recent history of this country has featured a guerilla war involving a Marxist drug cartel and terrorist group, FARC. For 10 points, name this country in which Simon Bolivar centered his "Gran" republic.
ANSWER: La Republica de Colombia
13. A method of preparing samples for this technique without significantly altering their environment is DART. Samples are usually prepared either via adding a sample to a crystal and then firing a laser at it, or by dispersion in aerosol form and subsequent evaporation. Most analyzers in this technique can rely on a quadrupole ion trap or use a reflectron to measure the time of flight. A tandem version of it is commonly used to sequence proteins, and the aforementioned techniques are used to ionize the sample before it is fragmented. It is often preceded by gas or liquid chromatography. For 10 points, name this technique in which a sample is separated into pieces and analyzed via their mass to charge ratio.
ANSWER: mass spectrometry [or mass spectroscopy; or MS]
14. The final chapter of this book discusses an "abnormal form" of the title concept in which poor regulation prompts a decrease in "functional activity." Its seventh chapter largely refutes Spencer's theory of contracts, stating that positive control is on the rise due to the fundamentally restitutive nature of modern laws. This work contrasts such restitutive systems with the typically repressive systems of primitive peoples, where common experiences prompt a mechanical solidarity that is fundamentally different from the organic solidarity of modern society. Organic solidarity is then said to derive from the title concept, which increases productivity yet leads to the alienation of the individual as well as anomie. For 10 points, name this 1893 magnum opus of French sociologist Émile Durkheim.
ANSWER: *The Division of Labor in Society* [or *De La Division Du Travail Social*]
15. One protein in this pathway has a G20210A mutant. This pathway is aberrantly activated by anti-phospholipid antibodies, while one pathway to initiate it relies on high-molecular weight kininogen. The aPTT and PT tests can be used to determine if particular proteins in this pathway are defective; said proteins include Hageman factor and another whose mutation causes Christmas disease. Most of the proteins in this pathway are serine proteases that cleave each other, one of which is bound to von Willebrand factor. For 10 points, name this cascade that includes Factors V, VIII, IX, X, etc, responsible for stopping the flow of blood at wounds.
ANSWER: blood coagulation cascade [or blood clotting cascade; accept reasonable equivalents]
16. In this novel, a gorilla wedding is captured on film by a character named Darwin Bonaparte. An *Hourly Radio* reporter named Primo Mellon is beaten up at a Wey Valley lighthouse by one character in this work, who also swears in Zúñi while refusing to meet the Arch-Community Songster. While on vacation in New Mexico, this novel's protagonist visits a community known as Malpais. This book opens with a description of the Bokanovsky process on a tour led by Thomakin, whose son is later found by the protagonist and Lenina Crowne. Its protagonist and his friend Helmholtz Watson are eventually exiled by the World Controller Mustapha Mond. For 10 points, name this novel about Bernard Marx and John the Savage that features the drug soma, a work of Aldous Huxley.
ANSWER: Brave New World
17. This ruler executed his unsuccessful general Mikhail Shein. This ruler signed a fourteen and a half year truce that lost his country control of Smolensk. Kuzma Minin and Dmitry Pozharsky supported this ruler, whose early reign was dominated by his mother's family, the Saltykovs. This ruler signed the Treaty of Stolbovo with Sweden. With the Truce of Deulino, this man achieved peace with Sigismund III Vasa, after which this ruler shared power with his father, the patriarch Philaret. This ruler was sixteen when he was elected by the *zemsky sobor* due to his relation to Fyodor I, and he was succeeded by his son Alexei I. His parents had been forced into convents by Boris Godunov, and the election of this tsar ended the Time of Troubles. For 10 points, name this first Romanov tsar.
ANSWER: Michael Romanov [or Mikhail Romanov]

18. According to Pausanias, one of this man's grandsons spends eternity weaving a rope that is constantly eaten by a donkey. That grandson of this man, Ocnus, also founded Mantua, which he named after his mother, this man's daughter, Manto. This son of Everes and Chariclo died after being struck by Apollo's arrow while drinking at the spring Telphussa. One story claims that he was given the ability to understand birdsong in reparation for a curse he'd received after stumbling upon Athena bathing. He received another punishment after hitting a mating pair of snakes with his staff, after which he was settled a bet between Zeus and Hera by stating that women enjoy sex more than men. For 10 points, name this figure who spent seven years as a woman, a blind prophet of Thebes.

ANSWER: **Tiresias** [or **Teiresias**]

19. This man's version of "Broadway" has Al Killian and Ed Lewis appear on trumpets, as they do in another work that uses a 12-bar blues tune broadcast from the Reno Club. He employed soloists like Eddie "Lockjaw" Davis and the earlier Harry "Sweets Edison," and his rhythm section consisted of guitarist Freddie Green and drummer "Papa" Jo Jones. He was discovered by John Hammond after leaving Bennie Moten to form his own Barons of Rhythm in Kansas City. His better-known groups include the Old and New Testament bands. For 10 points, name this jazz pianist and frequent collaborator of Ella Fitzgerald and Billie Holiday, best known for "Tickle Toe," "Jumpin' at the Woodside," and his signature piece named for the time at which it was originally improvised, "One O' Clock Jump."

ANSWER: Count **Basie**

20. At one point, this book's protagonist discovers a handkerchief monogrammed with an H that is eventually found to be a Cyrillic N. Later in this work, a red kimono is unaccounted for, until it is found planted in the protagonist's luggage. The events of this novel are sparked when the protagonist runs into Monsieur Bouc in the Tokatlian Hotel. At one point its protagonist has trouble sleeping due to a peculiar silence after he hears the words "Ce n'est rien. Je me suis trompe." A burned letter reveals that this work's antagonist was actually a fugitive named Casseti, who had kidnapped the heiress Daisy Armstrong. For 10 points, name this novel in which Hercule Poirot determines that all twelve suspects in the title crime stabbed Ratchett, an Agatha Christie book set on a train.

ANSWER: **Murder on the Orient Express** [accept **Murder on the Calais Coach**]

21. Later in this novel, the narrator sees one of his former coworkers killed by the police after being found selling dolls. This work's title character takes one of those dolls belonging to Tod Clifton and adds it to his pocket with Tarp's chain link. This work's narrator arrives in New York City as a result of his expulsion after bringing Mr. Norton to the Golden Day, and he brings with him eight letters from Mr. Bledsoe. The narrator of this work wins a scholarship to a public school along with a briefcase that he keeps with him in this novel. Ras the Exhorter becoming Ras the Destroyer as a member of the Brotherhood of this novel. For 10 points, name this novel that features a nameless black protagonist, a work by Ralph Ellison.

ANSWER: **Invisible Man** [Do not accept "The Invisible Man"]

ACF Winter 2010: Temporary Autonomous Zone

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

Packet by UCLA (Ray Luo, Ian Drayer, Christine Tarleton, and Mik Larsen), Texas (Albert R. Bayer, Mark Molaro, Ralm Ricarte, and Yogesh Raut), and Iowa (Paul Drube, Peter Montag, Martin Whitman, Dan Hogan, and Quentin Roper)

Bonuses

1. In one section of this work, its narrator describes the difference between inertia and laziness, calling the latter a positive trait. For 10 points each:
[10] Name this novel whose unnamed narrator outlines his encounter with a high school acquaintance in the military named Zverkov in the section called "Apropos of the Wet Snow."
ANSWER: Notes from the Underground [accept equivalents like Letters from the Underworld; or Zapiski iz podpol'ya]
[10] *Notes from Underground* was written by this Russian, author of *The Idiot* and *Crime and Punishment*
ANSWER: Fyodor Dostoevsky
[10] The unnamed narrator of *Notes from Underground* tries to convince this prostitute of her miserable existence, and, in embarrassment at her seeing him in his dilapidated apartment, curses her existence, prompting her to leave.
ANSWER: Liza
2. For 10 points each, name the following types of glacially produced landforms.
[10] These are long, narrow, raised ridge of fluvial deposits of post glacial gravel and other stratified sediment. They are formed from englacial and subglacial streams.
ANSWER: eskers
[10] This is an oval or canoe-shaped elongated hill with long axis parallel to the flow of the glacier. They usually have a layered structure.
ANSWER: drumlins
[10] This is an irregular mound or ridge that is sorted by water flowing along the edge of a glacier. They're usually associated with kettles.
ANSWER: kame
3. Identify these currently-airing animated television shows, for 10 points each.
[10] Morgan Spurlock was brought in to do an hour-long documentary on this Matt Groening-created show, which recently reached the twenty-year mark.
ANSWER: The Simpsons
[10] This stop-motion Adult Swim show's recently-ended fourth season included sketches such as an operatic version of *Wrath of Khan* and reused recurring characters like the humping robot and the glasses-wearing nerd.
ANSWER: Robot Chicken
[10] Mike Judge created this new show, which aired fleetingly on ABC and is now on Comedy Central. The main characters have an adopted son named Ubuntu and a dog named Che, and the show makes a big deal about political correctness.
ANSWER: The Goode Family
4. This poem compares its dedicatee to Thomas Chatterton, Philip Sidney, and Lucan, while it blasts the reviewer John Wilson Croker as a "deaf and viperous murderer" and a "noteless blot on a remembered name." For 10 points each:
[10] Name this "Elegy on the Death of John Keats," which repeatedly asks the reader to "weep for" the title character, as "he is dead," and claims that that character's soul "beacons from the abode where the Eternal are."
ANSWER: Adonais: An Elegy on the Death of John Keats, Author of Endymion, Hyperion, etc.
[10] Percy Shelley, the author of "Adonais," also wrote this sonnet about its title "king of kings," in which a traveler describes "two vast and trunkless legs of stone" and the inscription "Look upon my works, ye mighty, and despair!"
ANSWER: "Ozymandias"
[10] The Peterloo Massacre inspired Shelley to write this poem, whose title figure rides "a white horse, splashed with blood." It exhorts readers to "Rise like Lions after slumber" and notes that "Ye are many -- they are few."
ANSWER: "The Masque of Anarchy"

5. It is followed by the *Skaldskaparmal* and the *Hattatal* in the work in which it appears, and the section that precedes it makes some wacky euhemeristic claims about Greek mythology. For 10 points each:

[10] Name this section of a larger mythological work, which sees the title character adopt the alias Gangleri to ask Harr, Jafnharr, and Thridi questions about Norse myth.

ANSWER: the **Gylfaginning** [accept *The Beguiling of Gylfi* or equivalent translations]

[10] The *Gylfaginning* is the first section, following the Prologue, of this work by Snorri Sturluson.

ANSWER: the **Prose Edda** [accept **Younger Edda**; prompt on **Snorri's Edda**; prompt on **Edda**]

[10] At one point in the *Gylfaginning*, Harr tells Gangleri that it is “no wonder” that “the Rime-Giants and the Hill-Giants” know of this hammer of Thor, as it has “bruised many a skull among their fathers or their kinsmen.”

ANSWER: **Mjollnir** [accept **Mjolner**]
6. This artist depicted a girl in a lemon-yellow dress sitting in a window seat and looking at a book in the inventively-titled *Young Girl Reading*. For 10 points each:

[10] Identify this Rococo artist of the *Progress of Love* series, who painted a woman about to fall off a step in *Blind Man's Bluff*, and showed a woman's lover reaching up to lock the door in *The Bold*.

ANSWER: Jean-Honoré **Fragonard**

[10] In this Fragonard painting, a small white dog and several statues of putti look on as a bishop pushes the titular conveyance. The woman riding on the title object loses a shoe as a young man in the bushes looks up her dress.

ANSWER: *The **Swing*** [accept *The Happy Accidents of the **Swing*** or *Les Hasards Heureux de l'**Escarpolette***]

[10] Fragonard was accepted to the Académie on the basis of this painting, originally a Gobelin tapestry cartoon. Its first title character dramatically stabs himself. The other title character, who is in love with Agenor, swoons.

ANSWER: **Coresus and Callirhoe** [accept **Coresus Sacrificing Himself to Save Callirhoe**]
7. On his first voyage, he sailed through the Strait of Belle Isle, visited Prince Edward island, and named Chaleur bay. For 10 points each.

[10] Name this explorer who sailed into the St. Lawrence River and claimed Canada for France.

ANSWER: Jacques **Cartier**

[10] Cartier saw the Ottawa River and named Mont Royal while visiting the island of Hochelaga, which would later become the site of this large city of southern Quebec.

ANSWER: **Montreal**

[10] This French nobleman was sent to colonize the lands explored by Cartier, but Cartier disobeyed this man's orders and instead returned to France. He established a settlement at Cap Rouge that was soon abandoned.

ANSWER: Jean-Francois de La Rocque de **Roberval**
8. Answer some questions about bonding in organic compounds, for 10 points each.

[10] A double bond consists of one sigma bond and one of these bonds, which are composed of two parallel p orbitals overlapping. A series of them, alternated with single bonds, creates a conjugated system.

ANSWER: **pi** bond

[10] This class of compounds contains a ninety-degree twist in their central carbon because of the fact that p orbitals are perpendicular. These compounds have two adjacent double bonds.

ANSWER: **allene**

[10] A quadruple bond, on the other hand, contains one sigma, two pi, and one of these bonds, which contain overlapping d orbitals and only occur between elements of high atomic number.

ANSWER: **delta** bond
9. Brought up by a cowherd, this ruler was educated in Taxila. After a famine predicted by the Jainist Bhadrabahu, he left his empire to his son Bindusara and fasted to death. For 10 points each.

[10] Name this first emperor of the Mauryan dynasty who took over after Alexander the Great's departure and repelled the invasion of Seleucus I Nicator.

ANSWER: **Chandragupta** Maurya

[10] Chandragupta was taught by this Brahman politician, who later patterned the Maurya after the Achaemenid of Persia as Chandragupta's chief minister. This dude wrote the *Arthashastra*.

ANSWER: **Kautilya** [or **Chanakya**; or **Vishnugupta**]

[10] Chandragupta consolidated his reign by defeating Bhaddasala, a commander for the final ruler of this dynasty. It was founded by Mahapadma and ruled from Magadha.

ANSWER: **Nanda** dynasty

10. The new tenant college student Marie Buckholder is treated by the Delaneys like their daughter, because they couldn't have kids of their own, nor keep their pet. For 10 points each:
 [10] Name this play which details the dissatisfaction in Doc Delaney's marriage with Lola, who realizes that the title character is probably dead at the end of the work.
 ANSWER: **Come Back, Little Sheba**
 [10] Name this Midwestern playwright, who penned *Come Back, Little Sheba* along with the play *Bus Stop*.
 ANSWER: William Motter **Inge**
 [10] Flo Owens's daughters Millie and Madge become infatuated with the rough-around-the-edges Hal in this Inge play, which is set during a Kansas social function.
 ANSWER: **Picnic**
11. Bernard of Clairvaux pushed for this group to adopt the Rule of St. Benedict at the Council of Troyes, where they took on three perpetual vows and the white robe of the Cistercians. For 10 Points Each:
 [10] Name this group of *pauvres chevaliers*, a fraternal order founded by Hugues de Payens devoted to the protection of the Holy Land.
 ANSWER: Knights **Templar** [or Poor **Knights of Christ** and the Temple of Solomon; or **Knights of the Temple**]
 [10] The Knights Templar purchased this island from Richard I after he conquered it from a Byzantine usurper. They later sold it again, to Guy of Lusignan.
 ANSWER: **Cyprus**
 [10] This last Grand Master of the Templar was burned at the stake in 1314 after denying the accusations of inquisitors during seven years of imprisonment, part of Philip IV's attacks on the Order.
 ANSWER: Jacques de **Molay**
12. It consists of twenty Gifford Lectures published in 1902. For 10 points each:
 [10] Name this work of the psychology of religion beginning with "Religion and Neurology" and examining the case of Stephen Bradley in "Conversion." It followed up its author's "The Will to Believe."
 ANSWER: **The Varieties of Religious Experience**
 [10] This American philosopher wrote *The Varieties of Religious Experience*. Other works include *Pragmatism* and *The Meaning of Truth*.
 ANSWER: William **James**
 [10] Lectures fourteen and fifteen of *The Varieties of Religious Experience* are titled "The Value of" this quality. In it he analyzes the pros and cons of this characteristic and considers a man of this type versus a "strong man."
 ANSWER: **Saint**liness [accept word forms]
13. Answer the following questions about a type of electronic device, for 10 points each.
 [10] This type of transistor is made from two p-n junctions, and thus come in NPN and PNP varieties, the former of which has higher electron mobility than hole mobility.
 ANSWER: **bipolar junction** transistor [accept **BJT**]
 [10] BJTs depend on the depletion layer within this type of material, which is either P-doped or N-doped to create the NPN or PNP types of BJTs. Silicon and germanium are notable for being this type of material.
 ANSWER: **semiconductor**s
 [10] This effect states that the size of the base in a BJT varies with the size of the applied collector-base voltage, due to widening of the depletion region and a thinning of the neutral region.
 ANSWER: **Early** effect
14. Among his later works are the puppet opera *Master Peter's Puppet Show* and the scenic cantata *La Atlantida*. For 10 points each:
 [10] Name this composer of include *Love the Magician* and a ballet collaboration with Picasso and Dyagilev, *The Three-Cornered Hat*.
 ANSWER: Manuel de **Falla**
 [10] This piano virtuoso and composer of the opera *Maria del Carmen* died in the English Channel after writing a piano suite after paintings by Goya, which he expanded into the *Goyescas*.
 ANSWER: Enrique **Granados**
 [10] Both de Falla and Granados hail from this country, which also produced such composers as Joaquin Rodrigo and Pablo de Sarasate. de Falla also wrote a work about "Nights in the Garden of" this country.
 ANSWER: Kingdom of **Spain** [accept Reino de **España**]

15. Lepers and the “Ship of Fools” are discussed in the first chapter of a work detailing the “History of Insanity in the Age of Reason,” which was written by this man. For 10 points each:
- [10] Name this French sociologist and author of *Madness and Civilization* who also wrote *Discipline and Punish*.
ANSWER: Michel **Foucault**
- [10] The first of this three volume set by Foucault discusses sex in Roman and Greek culture and questions the “repressive hypothesis.” Its volumes include *The Will to Knowledge*, *The Use of Pleasure*, and *The Care of the Self*.
ANSWER: *The **History of Sexuality***
- [10] This phrase was coined by Foucault in his *The Birth of the Clinic* to describe the dissociation between a patient’s body and his own identity when a doctor diagnoses a patient.
ANSWER: **medical gaze** [or **regard**]
16. In this case, Justice Hugo Black overruled the precedent of *Betts v. Brady* to rule that the right to counsel guaranteed by the sixth amendment was necessary for a fair trial. For 10 points each:
- [10] Name this case which declared states must provide attorneys for defendants in their courts.
ANSWER: ***Gideon** v. **Wainwright*** [accept either in either order]
- [10] The decision in *Gideon v. Wainwright* cited *Powell v. Alabama*, in which the Supreme Court ruled that due process had been violated in the trial of this group of nine African-Americans accused of raping two white women.
ANSWER: **Scottsboro** boys
- [10] This future Supreme Court justice argued Clarence Gideon’s case to the court. He wrote the decision for *Tinker v. Des Moines* and resigned from the court in 1969.
ANSWER: Abe **Fortas**
17. One character in this work, Ormus Cama, is thought to be based on an amalgamation of John Lennon, Elvis Presley, and Freddie Mercury. For 10 points each:
- [10] Identify this novel that examines the rise to prominence of rock and roll music, a setting of the Orpheus and Eurydice myth in which Ormus and the narrator, Umeeed Merchant, both pursue Vina Apsara.
ANSWER: *The **Ground Beneath Her Feet***
- [10] *The Ground Beneath Her Feet* was written by this author of *The Enchantress of Florence* who became the target of a fatwa for a novel about Gibreel Farishta and Saladin Chamcha called *The Satanic Verses*.
ANSWER: Salman **Rushdie** [or Ahmed Salman **Rushdie**]
- [10] This protagonist of Rushdie’s novel *Midnight’s Children* was switched at birth with his rival Shiva. His gigantic nose gives him psychic powers until he undergoes surgery, after which it can smell good and evil.
ANSWER: **Saleem** Sinai [prompt on **Sinai**, **Snotnose**, **Sniffer**, **Stainface**, or **Baldy**; accept **Saleem Sinai**]
18. Name these parts of plant anatomy, for 10 points each.
- [10] This is the male pollen bearing organ of a flower. They contain a stalk called the filament and the anther on the top.
ANSWER: **stamen**
- [10] One of these is a member of the outermost circle of modified leaves surrounding the reproductive organs of the flower. Collectively they form the calyx.
ANSWER: **sepal**
- [10] These are horizontal creeping stems along the surface of the ground that root at nodes producing new plants.
ANSWER: **stolons**
19. Name these Japanese films, for 10 points each.
- [10] This winner of the 2008 Oscar for Best Foreign Film concerns cello player Daigo Kobayashi, who upon the dissolution of the orchestra with which he plays returns to his hometown and goes to work for an undertaker.
ANSWER: ***Departures*** [or ***Okuribito***]
- [10] The title character of this Akutagawa film names himself after a mulberry tree and brings peace to a town plagued by two rival crime lords by convincing the factions to battle each other, thereby wiping them out.
ANSWER: ***Yojimbo*** [or ***Bodyguard***]
- [10] Hiroshi Teshigahara made his name in the 60s with an adaptation of *Woman in the Dunes*, a novel by this author of *The Man Who Turned into a Stick*.
ANSWER: Kobo **Abe**

20. The first tractate of the Moed details the thirty-nine melakhot, activities that are prohibited during this time. For 10 points each:

[10] Name this weekly Jewish holiday, observed from sundown Friday to Saturday night, during which the weekly portion of the Torah is read, and during which Bar or Bat Mitzvahs often take place.

ANSWER: **Shabbat** [accept **Shabbos**, **Shabbes**, or **Shobos**; prompt on **Sabbath**]

[10] Variations of this prayer are recited during Shabbat; the reader's version is performed when preparing to read from the Torah, while the mourner's version is used when mourning for the dead.

ANSWER: **Kaddishes**

[10] Shabbat ends with this ceremony, which begins when three stars are visible in the Saturday night sky. It features the burning of a candle with multiple wicks and singing songs like "Shavua Tov" and "Eliyahu Hanavi."

ANSWER: **Havdalah**

21. In one novel in which he appears, this figure interacts with Amy Bellette, a woman who looks like Anne Frank. For 10 points each:

[10] Name this protagonist of *The Ghost Writer* and *The Anatomy Lesson*, a character with first name Nathan.

ANSWER: Nathan **Zuckerman**

[10] Nathan Zuckerman is a creation of this author, who also wrote the novels *Our Gang* and *Portnoy's Complaint*.

ANSWER: Phillip **Roth**

[10] The title of this most recent Zuckerman novel comes from a line from a line appearing in the Shakespearean plays *Macbeth*, *Hamlet*, and *Julius Cesaer*. It takes place the week before the 2007 election.

ANSWER: **Exit Ghost**