

FACTS

Edited by Ryan Golant, Jakob Myers, Clark Smith, and Shrayus Sortur

PACKET 10

Editors 6 (TJ + CSW)

TOSSUPS

1. In one book by this author, Frank Cowperwood loses his reputation after the Great Chicago fire of 1871 and becomes a scapegoat for some powerful Republicans. Besides *The Financier*, this author wrote of a salesman who encourages a Wisconsin girl to move out of her sister's apartment but is reluctant to let her act in a production of "Under the Gaslight." (*) In that novel, the title character is fooled into marrying Hurstwood after he escaped with her to Canada. In another of his works, a farm girl named Roberta Aiden is murdered by the father of her child, the troubled Clyde Griffith. For 10 points, name this American author of *Sister Carrie* and *An American Tragedy*.

Answer: Theodore (Herman Albert) Dreiser

2. Artemisia Gentileschi depicted the "Allegory of Painting" in one work of this type. A painting by Anthony Van Dyck of this sort is titled for the large sunflower in the foreground, while Norman Rockwell's "triple" variant of this work features a French fireman's helmet. One of these works features an emotionless woman wearing a (*) thorn necklace while flanked by a monkey and a black cat, while others by the same artist show a woman with cropped hair or as a wounded deer; those works are by Frida Kahlo. A series of these works features a man with a bandaged ear, and Rembrandt made nearly 100 paintings of this type. For 10 points, name these types of works in which artists depict themselves.

ANSWER: self-portraits [prompt on just "portraits"]

3. Composer and genre required. The first movement of one of these works uses a timpani rhythm often identified with fate, as well as a sweeping F major theme representing the composer's wife. A sustained A harmonic in the violins opens another one of these works, whose third movement includes a funeral march rendition of (*) "Frère Jacques". The composer purchased church bells for performances of the finale of the second of these works, in which the chorus sings, "The loving God will grant me a little light, which will light me into that eternal blissful life!" For 10 points, name these orchestral works by a certain Austrian composer, including ones nicknamed "Titan" and "Resurrection".

ANSWER: symphonies by Gustav Mahler [prompt on partial answer]

4. In a poem addressed to a member of this profession, Atticus and Sporus are ridiculed as the narrator yells "Shut, shut the door, good John!" to avoid being swamped by admirers. A character in this profession is inspired to write the poem "Bad Roads in Spring" after he is kidnapped by the Forest Brotherhood. A pair of glasses recovered from the Marabar Caves (*) is used to falsely accuse one of these people of raping Adela Quested. Another person with this occupation accidentally infects Hippolyte's club foot and is frequently cuckolded by his dissatisfied wife in *Madame Bovary*. A friend of Gabriel Utterson who tramples a young girl also has this profession. For 10 points, name this job held by characters such as Yuri Zhivago and the alter ego of Mr. Hyde.

ANSWER: doctor [accept answers like surgeon or physician]

5. A structure in this city designed by Richard Seifert serves as the headquarters for NatWest and is known as Tower 42. Triangular glass panes adorn the sides of a building designed by Norman Foster for the Swiss Re company in this city; that building is nicknamed “the gherkin”. This city, the site where Edward the Confessor rebuilt St. Peter’s Abbey, is also home to the (*) Tate Modern. A gold-topped column here commemorates the 1666 fire which devastated this city, whose buildings were subsequently redesigned by Christopher Wren. For 10 points, name this city whose landmarks include St. Paul’s Cathedral, Westminster Abbey, and Big Ben.

ANSWER: London

6. In a film where this is the first word, one character debates whether “Moses supposes erroneously” that his toes are “roses.” That film features Gene Kelly in the lead role. An instance of this action occurs in the ending credits of the game *Batman Arkham City*, where Harley Quinn does this to her child. In several episodes of *Parks and Recreation*, Jean Ralphio (*) attempts this action to signal a successful business transaction. In an episode of *Pokemon : Indigo League* set in Neon City, Jigglypuff took this action, which caused the entire city to fall asleep. For 10 points, name this action, often taken in musicals by the lead characters.

ANSWER : singing [accept clear equivalents]

7. In this book, a man gives a shoe to another to close a deal about the redemption of a field and a levirate marriage before ten elders. A woman in this book tells another “whither thou goest, I will go.” That woman sleeps below a heap of grain after uncovering the feet of a man who lets her glean his fields. A woman from Mo·ab travels with her sister Or·pah after their Israelite husbands (*) die in this book. Its title character mothers O·bed by Bo·az and thereby becomes the ancestor of Jesse and David after following her mother-in-law Naomi to Bethlehem. For 10 points, name this Biblical book which, like Esther, is named for its heroine.

ANSWER: Book of Ruth [or Rut]

8. This man sent missionaries to a ruler he referred to as “Antayaka” and had a torture chamber disguised to look like a garden from outside, his namesake “hell.” During a rebellion by the Avanti kingdom, this ruler escaped from his brother Susima by hiding his wounds. After witnessing atrocities committed in his name during his conquest of the (*) Kalinga Kingdom, this ruler converted to Buddhism. He created a statue of lions at Sarnath along with several rock-pillar edicts, one of which is visible on India’s national seal. For 10 points, name this Mauryan emperor.

ANSWER: Ashoka Maurya

9. This man used Armand Seguin as a test subject in his studies of human respiration. With Laplace, he developed an early calorimeter that used melted ice to measure heat production. By burning mercury, this scientist found that air was composed of two gases and named one of them (*) azote, a substance this man later included among the thirty-three elements in his *Elementary Treatise on Chemistry*. This man used the discoveries of Priestley and Cavendish to disprove the phlogiston theory of combustion, and he pioneered stoichiometry by defining the law of conservation of mass. For 10 points, name this French scientist who is considered the father of modern chemistry.

ANSWER: Antoine Lavoisier [or Antoine-Laurent de Lavoisier]

10. In this city, a man says “Mortal things touch the mind” and “there are tears of things” while looking at a mural in a temple. The construction performed by this city’s inhabitants is compared to work done in early summer by bees. During a hunt near it, a storm forces a man and woman to sleep together in a cave. Iarbas granted its founder the land around Byrsa which that leader encircled with an (*) oxhide. That founder laid on a couch atop a pile built by Anna Per-en-na. Leaving this city, men look back from their ships to see a figure alternatively called Elissa immolate herself. For 10 points, name this city founded by Dido, later home to Hannibal.
ANSWER: Carthage [or Carthago, with or without a “delenda est” appended to it]

11. One archipelago off the coast of this country contains the islands of Inishmore, Inishmaan, and Inishear. This country’s mountain ranges include the excellently named MacGillycuddy’s Reeks as well as the Wicklow Mountains. This country’s Connemara region is known for its wild horses, and this country’s indigenous language is most widely spoken in its (*) Aran Islands. This country’s Shannon Airport is located in its County Clare, and its major cities include Cork and Galway. This country’s indigenous language is official in its Gaeltacht, and it is the only country to have a land border with Great Britain. For 10 points, name this Western European country with its capital at Dublin.
ANSWER: Republic of Ireland [do not accept Northern Ireland]

12. In a work by this author, an assistant meteorologist buys rope for the seashell-drawing Miss Zwida. Priscilla is rescued from bears by the knight Agilulf in this man’s *The Nonexistent Knight*, while another work sees Baron Cosimo decide to live in a tree. This writer included cities like Diomira in a novel based on the travels of (*) Marco Polo. In another work by this man, the fake translator Ermes Marana is sought by Professor Uzzi-Tuzzi and the reader, and that novel’s odd-numbered chapters are narrated in second-person. For 10 points, name this Italian author of *If On a Winter’s Night a Traveler*.
ANSWER: Italo Calvino

13. Roger Scruton wrote a documentary for the BBC titled *Why [This Concept] Matters*. An “iron maiden” created by this concept harms those who seek to embody it according to a book by Naomi Wolf on a “myth” surrounding it. Platonists up through the medieval era equated it with “the good.” This concept is the alphabetically prior of the two “subjective universals” which are part of the four “reflective judgments” proposed in the (*) *Critique of Judgment*. Matthew Arnold called those who foremost despise this thing “philistines.” Pythagoreans defined it in terms of perfect proportion. Edmund Burke contrasted this concept with the sublime. For 10 points, name this subject of aesthetics.
ANSWER: beauty [accept art; accept aesthetics before mention (though all the titles specifically use the term “beauty”); specifically accept *Why Beauty Matters* and *The Beauty Myth*]

14. This man names a formula used to select the best machine learning model from a fixed set of models, taking into account factors such as the size of the training dataset and the number of learned parameters. He’s not Markov, but this man names a type of network which uses multiple probabilities to represent conditional dependencies on a directed acyclic graph. Filters named for this man are used by (*) email systems to detect spam via a “naive” application of his namesake theorem. This man names an interpretation of probability that considers reasonable expectation, in contrast with frequentist probability. For 10 points, name this mathematician whose namesake theorem computes probability based on prior knowledge of relevant conditions.
ANSWER : Thomas Bayes

15. General relativity predicts a type of this effect named for de Sitter, also called the geodetic effect, while in one form of this process a torque is caused by a magnetic field. A system undergoing this effect has a changing first Euler angle, and this effect is often combined with (*) nutation, which causes irregularities in this effect. A time-varying moment of inertia causes the torque-free type of this effect, and this effect during the Earth's orbit causes the motion of the equinoxes along the ecliptic and the changing seasons. A classic example of a system undergoing this effect is a spinning top wobbling over time. For 10 points, name this effect in which the rotation axis of an object changes orientation.

ANSWER: precession

16. This empire's king Bonsu fought a rebellion of its neighboring Gyaaman tribe. Another war between the British and this kingdom resulted in the capture of its King Prempeh I. The source of power, called the Dwa, of this kingdom supposedly landed on the laps of Osei Tutu(*) after it was commanded down from the heavens by the chief priest. After the sack of its capital, Kumasi, this kingdom was annexed into the Gold Coast colony. For 10 points, name this African kingdom which was annexed by the British in the 19th century, whose monarchs used a throne called the Golden Stool.

Answer: Ashanti Empire [or Ashanti Kingdom]

17. In one part of this poem, the title character bites his arm and sucks out blood in order to make clear that an object is approaching. Another character dooms souls based on her own preferences and contrasts Death, who appropriately sends souls to Heaven or Hell. This poem ends with the title character saying "He prayeth best, who loveth best" (*) and vanishing to leave the wedding guest alone. Due to the fog, the title character of this poem accidentally shoots an albatross and is forced to wear the dead bird on his neck as punishment. For 10 points, name this long narrative poem by Samuel Taylor Coleridge about the cautionary tale of an old sailor.

Answer: The Rime of the Ancient Mariner

18. A poem about this event describes "salamandrine fires" and proclaims that the "Spinner of Years said 'Now!'" The newsboy Ned Parfett is depicted in a photograph taken in the aftermath of this event, which some witnesses blamed on the actions of J. Bruce Ismay, who was said to have escaped this event by crossdressing (*). This disaster occurred after warnings from the captain of the *Californian* were ignored. The site of this disaster was discovered in 1985 by Robert Ballard, and the *Carpathia* managed to rescue survivors of this tragedy, although many others succumbed to hypothermia due to the lack of lifeboats. For 10 points, identify this 1912 event that was caused by a collision with an iceberg.

ANSWER: sinking of the *RMS Titanic* [accept equivalent answers]

19. An emerging treatment for this disease involves the stimulation of the globus pallidus interna and the subthalamic nucleus. It's not Lewy body dementia, but accumulation of alpha-synuclein has been observed in patients suffering from this disease. Drugs for this disease mimic a neurotransmitter produced in the pars compacta of the (*) substantia nigra, where cell death causes problems in the motor circuits. That drug is L-dopa, which works to correct a dopamine deficiency in the brain. For 10 points, name this neurodegenerative disorder, also known as shaking palsy, which results in loss of muscle control, dementia, and tremors.

ANSWER: Parkinson's disease [or PD; prompt on "shaking palsy" before mentioned]

20. Failure to pass the Bacon Resolution caused this man to oppose the annexation of the Philippines. This politician, who ran for president with John Kern as his running mate, called for stricter railroad regulations in his magazine *The Commoner*, and he was prompted by the sinking of the Lusitania to resign as Secretary of State (*). Besides defending the Butler Act in court against Clarence Darrow, this man won the Democratic party's presidential nomination through his support of bimetallism, which he advocated for in his "Cross of Gold" speech. For 10 points, name this orator from Nebraska, a leader of the Populist party and three-time presidential candidate.

ANSWER: William Jennings **Bryan**

BONUSES

1. Name some authors and works that makes use of crude humor and inappropriate language. For 10 points each:

[10] Name this author who wrote about a giant who drowns Paris in urine and helps a friar create a church in his *The Life of Gargantua and of Pantagruel*.

Answer: Francois **Rabelais**

[10] This author wrote about how “Nicholas just then let fly a fart” in Absalom's face in one part of his *Canterbury Tales*. He more appropriately wrote of Scipio Africanus guiding the narrator through *The Parliament of Fowls*.

Answer: Geoffrey **Chaucer**

[10] The aforementioned act occurs during this character's story, which follows the Knight's tale. This character claims he is too drunk to be held accountable for what he says.

Answer: The **Miller** [accept the **Miller's Tale**; accept **Robin**]

2. This law was used to correctly predict the orbit of Ceres, but failed upon the discovery of the planet Neptune. For 10 points each:

[10] Name this law that hypothesizes that each successive planet in our Solar System will be a factor of two times farther from the Sun. This law is named for two German astronomers.

ANSWER : **Titius-Bode** Law

[10] More accurate laws concerning orbits were devised by this man, who used the Copernican system as the basis for his derivation of three laws of planetary motion.

ANSWER : Johannes **Kepler**

[10] Kepler's third law states that the cube of an orbit's semi-major axis is proportional to this power of the orbital period; this exponent appears because the expression for centripetal force has omega raised to this power.

ANSWER: **two** [or **second** power; or **squared**; accept reasonable equivalents indicating that orbital period is raised to the second power]

3. Answer the following about the African leaders of the 1980s. For 10 points each:

[10] This Sudanese leader who took power in 1989 attracted controversy in later decades for harboring Osama Bin Laden at the urging of his spiritual advisor, Hassan al-Turabi.

ANSWER: Omar al-**Bashir**

[10] Samuel Doe served as president of this country throughout the 1980s. His successor would later sever and eat his ear on tape before plunging this country ruled by an elite descended from American immigrants into a civil war.

ANSWER: **Liberia**

[10] Muhammadu Buhari, this country's current president, briefly held power there after a military coup in 1982. He won this country's most recent election partially by winning its major cities of Lagos and Abuja.

ANSWER: **Nigeria**

4. As president of the World Bank, this man shifted that organization's focus to poverty reduction. For 10 points each:

[10] Name this man who served as Secretary of Defense under JFK and LBJ. He is known as one of the “Whiz Kids” who rebuilt the Ford Motor Company after World War II.

Answer: Robert S. **McNamara**

[10] McNamara served as Secretary of Defense during this conflict. US involvement in this conflict was authorized by the Gulf of Tonkin Resolution and ended with the evacuation of Saigon.

Answer: **Vietnam** War [accept **Second Indochina War**]

[10] This general was the chief commander of U.S. forces during the Vietnam War. His scorched-earth tactics and carpet-bombing strategy destroyed support for the war.

Answer: William (Childs) **Westmoreland**

5. Ordinary life from birth until death is sometimes counted as one of these time periods called *kyenay*. For 10 points each:

[10] Name this liminal states between death and rebirth. Six were enumerated by Karma Lingpa in a Book of the Dead whose original language title starts with this term.

ANSWER: **bardo** [accept **Bardo Thodol**]

[10] The *Bardo Thodol* was written in this modern nation home to Bon and a form of Buddhism led by the Dalai Lama.

ANSWER: **Tibet** [or **Xizang**; prompt on “(People’s Republic of) China,” “PRC,” and “Zhōngguó”]

[10] This *tulku* is responsible for finding the incarnation of the Dalai Lama when the last one dies, and vice versa. This lama is the second most authoritative in Yellow Hat Buddhism, behind only to the Dalai Lama.

ANSWER: **Panchen** Lama

6. Dark thunder clouds contrast with a clear sky over the winding Connecticut river in this artist’s painting *The Oxbow*. For 10 points each:

[10] Name this landscape artist who also painted an allegory for aging in his series *The Voyage of Life*.

ANSWER: Thomas **Cole**

[10] Thomas Cole founded this American art group which took its inspiration from Romanticism and depicted scenes of the natural wilderness.

ANSWER: **Hudson River School**

[10] This other painting series by Thomas Cole depicts the growth and destruction of a civilization and features works titled *The Savage State* and *Desolation*.

ANSWER: *The* **Course of Empire**

7. In July 2017, this country airlifted thousands of cows in an effort to build a dairy industry. For 10 points each:

[10] Name this country with capital at Doha. Since June 2017, this country has been embargoed by a Saudi-led group of Arab states, which accuse it of supporting Islamist militants.

ANSWER: **Qatar**

[10] Saudi Arabia has demanded the closure of this Qatari state-owned broadcaster, whose English-language channel launched in 2006.

ANSWER: **Al-Jazeera**

[10] After the outbreak of the diplomatic crisis, Qatar withdrew troops from the civil war in this country. Fighting between the Saudi-backed government and Houthi rebels in this country has led to massive cholera outbreaks.

ANSWER: **Yemen**

8. This woman agrees to let one hundred of her children die every day, and not to kill any infant wearing an amulet with the name of an angel, in an embedded story in the *Alphabet of Sirach*. For 10 points each:

[10] Name this woman, the wife of Samael and mother of a lot of demons. She would not agree with Adam on how they would position themselves relative to each other, so she left him and God created Eve for him instead.

ANSWER: **Lilith** [or **Lilit**]

[10] Lilith is alternatively the wife of the demon Asmodeus, who kills every man Sarah marries on their wedding night in this book of the Apocrypha. The angel Raphael helps its title figure’s similarly named son ward off Asmodeus.

ANSWER: Book of **Tobit** (his son is named Tobias)

[10] Because of the Vulgate’s use of “Lamia” to translate “Lilith” in Isaiah, the two creatures have been syncretized heavily. Both are part-woman and part-this creature, many of which are also found in Medusa’s hair.

ANSWER: **snake** [or **serpent** or clear-knowledge equivalents]

9. This game features constructs known as blinkers and gliders. For 10 points each:

[10] Name this zero player game which is governed by 4 basic rules and simulates cellular life. Cells in this game go through a constant cycle of birth and death that affects the next generation of cells.

ANSWER : **Conway's Game of Life** [prompt on "Game of Life"]

[10] Because algorithms can be evaluated in Conway's Game of Life, it is considered equivalent to one of these constructs named after a British computer scientist. These theoretical constructs consist of symbols on an infinite tape that are processed according to a table of rules.

ANSWER : **Turing machine**

[10] If a system of instructions can simulate a Turing machine, then it is said to have this property, and is thus theoretically capable of performing any task accomplishable by a computer. Conway's Game of Life and most programming languages have this property.

ANSWER : Turing **completeness** [accept word forms; accept computational **universality** or equivalent word forms]

10. One person from this industry infiltrated the Hells Angels biker gang in order to write a book. For 10 points each:

[10] Name this field whose practitioners included muckrakers like Ida Tarbell.

Answer: **journalism**

[10] This book, an exemplar of gonzo journalism, features characters like Raoul Duke and Dr. Gonzo. Both take a lot of drugs as they go on a series of adventures in the title "city of greed."

Answer: ***Fear and Loathing in Las Vegas***

[10] This journalist wrote *Hell's Angels* and *Fear and Loathing in Las Vegas*. He pioneered the aforementioned gonzo journalism, which allows the reporter to be involved in the story they investigate.

Answer: Hunter (Stockton) **Thompson**

11. A porter in this play pretends to be from hell and talks about the type of people that he would meet there. For 10 points each:

[10] This play that details the title character's rise to power, aided by his power-hungry wife. This play takes place in Scotland during the Middle Ages.

Answer: ***Macbeth***

[10] Shakespeare wrote Macbeth under the reign of this king, the son of Mary, Queen of Scots. This successor of Elizabeth I survived an attempt on his life during the Gunpowder Plot.

Answer: **James I** [accept **James VI**; prompt on "James"]

[10] Shakespeare published *Macbeth* in this book, the most reliable source for his plays. Ben Jonson wrote the preface to this collection that also included *The Tempest*, *Two Gentlemen of Verona*, and *King Lear*.

Answer: **First Folio**

12. For 10 points each--answer the following about a certain metabolic pathway:

[10] This precursor to the Krebs Cycle is a ten-step process that converts an input of glucose to pyruvate outside of the mitochondria. In anaerobic settings, this pathway's products may undergo fermentation.

ANSWER: **glycolysis** [accept the **Embden-Meyerhof-Parnas** pathway, or the **Entner-Doudoroff** pathway; prompt on "respiration" or "cellular respiration"]

[10] Many steps of glycolysis are catalyzed by this ion, which activates ATP via binding. This ion of the second-lightest alkaline earth metal is also the coordinating atom in the ring structure of chlorophyll.

ANSWER: **magnesium** ion [or **Mg²⁺**, or **magnesium 2+**]

[10] This scientist postulated that, even in the presence of oxygen, cancer cells use glycolysis as the primary mechanism for metabolism. That phenomenon is known as this scientist's namesake "effect."

ANSWER: Otto Heinrich **Warburg** [accept the **Warburg** effect, the **Warburg** hypothesis, or the **Warburg** theory of cancer]

13. Answer the following about vexillology, the study of flags. For 10 points each:

[10] This country's Bowman flag features the rose of England on a shield flanked by an emu and a kangaroo.

ANSWER: Commonwealth of **Australia**

[10] King Rama VI designed the modern flag of this nation. Unlike previous flags used by this country, the current one does not have a white elephant in the center.

ANSWER: Kingdom of **Thailand** [or **Siam**]

[10] The only non-rectangular flag in the world belongs to this country, located between China and India. The triangular border of this country's flag represent the mountainous Himalayan region in which it is located.

ANSWER: **Nepal**

14. This man conducted a successful 1829 performance of the *St. Matthew Passion* that is widely credited with reviving interest in Johann Sebastian Bach. For 10 points each:

[10] Name this German composer who included a notable "Wedding March" in his incidental music to *A Midsummer Night's Dream*.

ANSWER: (Jakob Ludwig) Felix **Mendelssohn** (Bartholdy)

[10] The Nazis later censured Mendelssohn and commissioned this composer to write new music for *A Midsummer Night's Dream*. This man's *Carmina Burana* found enormous success in Nazi Germany.

ANSWER: Carl (Heinrich Maria) **Orff**

[10] Mendelssohn wrote eight volumes of these short lyrical pieces for piano, including several "Venetian Boat Songs" and the "Spinner's Song".

ANSWER: **Songs Without Words** [or **Lieder ohne Worte**]

15. In Catholicism, this process can occur either "latae sententiae" or "ferendae sententiae." For 10 points each--

[10] Name this practice by which a religious community can suspend one of its members. In Eastern Orthodox, people subjected to this action cannot receive the Eucharist.

ANSWER: **excommunication** [accept word forms, like **being excommunicated**; prompt on descriptive answers, like "kicking someone out of a Church"]

[10] During the Investiture Controversy, Pope Gregory VII excommunicated this Holy Roman Emperor who later had to walk to Gregory's castle at Canossa and stand barefoot in the snow for days as penance in order for the excommunication to be lifted.

ANSWER: **Henry IV** [accept **Heinrich IV**]

[10] This Czech priest was excommunicated by Pope Alexander V during the Bohemian Reformation and was later burned at the stake at the Council of Constance.

ANSWER: Jan **Hus** [also accept John **Hus** or John **Huss**]

16. For 10 points each--answer the following about some controversial construction projects:

[10] This Renzo Piano-designed skyscraper--the tallest building in the UK--has been criticized for being too tall and for piercing "through the heart of historic London," thus giving the structure its name.

ANSWER: The **Shard** [or the **Shard** of Glass, or **Shard** London Bridge; also accept **London Bridge Tower**]

[10] For a 2014 sporting event, Brazil spent hundreds of millions of dollars building one of these structures in the middle of the Amazon, instead of investing much-needed money in the nearby city of Manaus.

ANSWER: **soccer stadiums** [or **football stadiums**; accept **soccer arenas** or **football arenas**; also accept **Arena** de Amazonia or Amazon **Arena**; prompt on "arena(s)" or "stadium(s)"]

[10] This Boston skyscraper was nicknamed "Plywood Palace" after multiple windows fell onto the ground, necessitating replacement with wood panels. This building's namesake is famous for his conspicuous signature.

ANSWER: John **Hancock** Tower [or The **Hancock**; accept **200 Clarendon Street**]

17. One of this author's characters is a journalist for William Randolph Hearst's newspaper. For 10 points each:
[10] Name this author who wrote about "General" Tomas Arroyo's attempt to take possession of the Miranda family hacienda. However, Arroyo is stopped by the titular elderly American.

Answer: Carlos **Fuentes** (Macias)

[10] Apart from *The Old Gringo*, Fuentes also wrote *The Death of Artemio Cruz*, in which the titular character's secretary presents these items to prove his secret dealings with foreign businessmen. One of these items also titles a Beckett play whose protagonist uses them to reminisce about his younger self.

Answer: audiotapes

[10] *The Old Gringo* is said to be based off of this real life author. This author fought in the American Civil War, crossed the Mexican-American border in search of Pancho Villa, and died in a Mexican civil war.

Answer: Ambrose **Bierce**

18. The "guess two thirds of the average game" is sometimes named after this sort of event. For 10 points each:

[10] Name this event central to a thought experiment in which a newspaper asks participants to pick six photographs out of one hundred for a contest. Its proposer suggested it would be best to act according to what one believes others would pick rather than their own opinions, and analogized it to the stock market.

ANSWER: **beauty contest** [accept, but do not otherwise reveal **Keynesian beauty contest**]

[10] That "beauty contest" is usually named for this economist, who wrote *The General Theory of Money, Interest, and Employment*.

ANSWER: John Maynard **Keynes** [CANES] [accept **Keynesian**]

[10] Keynes' economics were made into this model by John Hicks, later expanded by Alvin Hansen. It either explains the behavior of national income when short-run prices are fixed, or according to other interpretations explains aggregate demand shifts.

ANSWER: **IS-LM** model [or **Investment-Saving/Liquidity Preference-Money Supply** model; don't prompt on "Hicks-Hansen model" since that was given in the question]

19. The losers of this battle were betrayed by Ephialtes. For 10 points each:

[10] Name this battle in which a group of Spartan warriors led by Leonidas defended a narrow pass against the Persian forces of Xerxes I.

ANSWER: Battle of **Thermopylae**

[10] Another Spartan king, Cleombrotus I, was defeated at the Battle of Leuctra by this city state. The elite soldiers of this city state were known as the Sacred Band.

ANSWER: **Thebes**

[10] Sparta's rise to power is often attributed to the militaristic reforms instituted by this lawgiver, who established the agoge- a harsh training regimen for young boys.

ANSWER: **Lycurgus**

20. The namesake of this reaction is the only recipient of the Nobel Prize in Chemistry to have been affiliated with the University of Delaware. For 10 points each:

[10] Name this reaction, which reacts an unsaturated halide with an alkene to form a substituted alkene. Its namesake worked with Tsutomu Mizoroki, who co-names this reaction.

ANSWER: **Heck** reaction [or Mizoroki-**Heck** reaction]

[10] The Heck reaction allows one to do substitution reactions on planar carbon atoms possessing this hybridization. The two carbon atoms in ethylene possess this hybridization.

ANSWER: **sp²** [or **sp 2**]

[10] Heck shared his 2010 Nobel Prize in Chemistry with Ei-ichi Negishi and Akira Suzuki, two scientists who hail from this country.

ANSWER: **Japan** [or **Nippon**, or **Nihon**]