

1. One event in this play is foreshadowed by a character's green pajamas. In another scene, a housewife leads several cafe patrons in a funeral procession for her dead cat. A character in this play claims that all cats are dogs because both have four paws, and that Socrates is a cat because he is dead, while attempting to explain syllogisms. In one scene in this play, a staircase's destruction prompts Mrs. Boeuf to leap out a window, after which Mr. (*) Papillon orders Botard and the others to return to work. At this play's end, its protagonist is abandoned first by Dudard, then by his love interest Daisy, before screaming "I'm not capitulating!" For 10 points, identify this Eugene Ionesco play in which Berenger refuses to become one of the title animals.

ANSWER: Rhinoceros [or Rhinocéros]

<Carson>

2. Sufferers of this disease classically use the Gowers maneuver. It is caused by a mutation in a protein that colocalizes with syncoilin and synemin in the DGC complex. Patients with this disease have over ten times the normal amount of CPK. The protein mutated in this disease contains 79 exons and is responsible for coupling the basal lamina to the cytoskeleton, and traverses the (*) sarcolemma. Patients with this disease develop cardiomyopathy around age 20 and wheelchair- and ventilator-dependence by age 13. This disease, which is a more severe form of a disease named for Becker, is caused by very large deletions of a protein encoded by the X chromosome. For 10 points, name this genetic disease which causes progressive muscle weakness.

ANSWER: Duchenne Muscular Dystrophy [or Duchenne MD]

<Mukherjee>

3. Edward Alden Jewell criticized this artist's surreal painting *The Syrian Bull*, prompting this artist to claim that "There is no such thing as a good painting about nothing" in a manifesto written as a letter to the *New York Times* with his friend Adolph Gottlieb. Barnett Newman's *Broken Obelisk* is outside an octagonal chapel containing this man's paintings in Houston. He broke a contract for forty paintings after deciding that the (*) Four Seasons Restaurant was an inappropriate place to house his work. This artist of the *Seagram Murals* painted canvases broken into rectangular blocks of contrasting colors, such as *Red on Maroon*. For 10 points, name this Latvian-American artist who pioneered color-field painting.

ANSWER: Mark Rothko [or Marcus Yakovlevich Rothkowitz]

<Bollinger>

4. J. Hillis Miller described two characters in this poem as "opaque spheres" which "can never, like soap bubbles, become one". A 38-line "pervigilium" was deleted from an early draft of this poem, whose speaker describes a time "for a hundred indecisions, and for a hundred visions and revisions" and claims to be "an attendant lord", rather than "Prince Hamlet". Its third stanza describes the catlike actions of a (*) "yellow fog". Its speaker wonders "Would it have been worth it, after all?", worries about being told "That is not what I meant at all", and asks "Do I dare disturb the universe?" This poem's refrain describes women who "come and go, talking of Michelangelo". The line "Let us go then, you and I" opens, for 10 points, which 1915 poem by T.S. Eliot?

ANSWER: "The Love Song of J. Alfred Prufrock" [prompt on "Prufrock"]

<Carson>

5. This work's first act ends with a searchlight sweeping the stage, which holds two corpses. During a ballet in this work's second act, an off-stage soprano sings the melody that will be reprised as this work's finale, which begins "There's a place for us / A time and place for us". One character in this work describes herself as (*) "stunning" and "entrancing" and feeling "like running and dancing for joy" in "I Feel Pretty", before being informed of her brother Bernardo's death in a knife-fight with Riff. The title girl's name is described as "All the most beautiful sounds in the world in a single word" by Tony in the song "Maria". For 10 points, name this musical featuring the rival gangs, the Sharks and the Jets, by Stephen Sondheim and Leonard Bernstein.

ANSWER: West Side Story

<Lawrence>

6. One leader of these people was defeated at Tigranocerta in 69 BCE by an army commanded by Lucullus. Their land was briefly made a Roman province following the defeat of Artavasdes I at the hands of Marc Antony. In the Middle Ages, these people were ruled by King Ashot III the Merciful and other members of the Bagratid Dynasty. Once ruled by Tigranes the Great, St. Gregory the Illuminator converted these people to Christianity circa 300 CE, establishing one of the (*) oldest continuous Christian churches. They are the majority in Nagorno-Karabakh, which is disputed by Azerbaijan. As many as 1.5 million of them were killed at the order of Enver Pasha by Turks during a World War I genocide. For 10 points, name this ethnic group found in cities like Yerevan.

ANSWER: Armenians [or Armenian Hay or Armenian Hayq or Armenian Hayk or Armina or Armenioi]

<Bentley>

7. One teacher contrasted this movement to a "wellspring of wisdom below" by suggesting that it is a set of "gates of wisdom above" that will open in the year 6600. The Vilna Gaon wrote commentaries in the method of this movement, whose Cordoverian branch was displaced by the Lurianic branch. One founder of this intellectual tradition died on the 33rd day of the Omer. This tradition's name means "reception," and it believes in a type of will called "crown," or *keter*. Adherents use a (*) tree-like diagram to show ten interlinked "emanations" of the infinite, called *sefirot*. This tradition's founding text, the *Zohar*, used methods such as numerology to reinterpret the Talmud and Torah. For 10 points, name this tradition of Jewish mysticism.

ANSWER: Kabbalah [prompt on "Judaism"; prompt on "Jewish mysticism"]

<Jackson>

8. Tom Wolfe's article "Radical Chic" describes a fundraising party hosted by Leonard Bernstein for members of this group. Full employment and exemption from military service were two of the Ten Points issued by this group. Howard Alk directed a documentary chronicling the murder of one member of this organization, Fred Hampton, who was killed by Chicago (*) police in his apartment. The FBI's COINTELPRO sought to engineer feuds between this organization and the Blackstone Rangers. One founder of this group, which ran the Free Breakfast for Children program, was accused of murdering John Frey, an Oakland police officer. Founded by Bobby Seale and Huey Newton, for 10 points, name this militant African-American group active during the 1960s and 1970s.

ANSWER: The Black Panthers [or Black Panther Party for Self-Defense]

<Bentley>

9. Thomas Browne was a follower of this thinker, who wrote *Valerius Terminus* in search of a post-Aristotelian *philosophia prima*. He critiqued atheists in his religious *Meditationes Sacrae*, and said that human nature, individual biases, “ill and unfit choice of words,” or tradition can all lead the mind astray in his six-part *Instauratio Magna*. This man shares a surname with the medieval author of the *Opus Maius*, “Doctor Mirabilis”. He gave the names of (*) tribe, cave, marketplace, and theater to four “idols” of human error. He described the researchers of Salomon’s House on the utopian isle of Bensalem in *The New Atlantis*. For 10 points, name this Englishman who championed scientific induction in *Novum Organum*.

ANSWER: Sir Francis Bacon, 1st Viscount St. Alban

<Jackson>

10. The Fermi pseudopotential describes the scattering of these particles. SU(5) and SO(10) Grand Unified Theories predict a yet-unobserved oscillation between this particle and its antiparticle. These particles can be generated from spallation sources. Matter-antimatter asymmetry would be explained by a relatively large value of its electron dipole moment, which is also a measure of CP violation. These particles were originally discovered in an experiment in which they hit a layer of paraffin wax after being knocked out of (*) beryllium; that experiment was conducted by Chadwick. This particle consists of two down quarks and one up quark, and changing the number of these particles creates different isotopes. For 10 points, name this neutral particle in the nucleus.

ANSWER: neutron

<Mukherjee>

11. Gary Becker argued that this value and cost increased when women simultaneously worked and raised a family and wrote an article on the “theory of the allocation” of this value. In a 1967 article for *Past and Present*, E.P. Thompson showed how industrial capitalism altered the way this was measured and perceived. This quantity's “preference” determines an individual's discounting function. Investment is the (*) derivative of capital with respect to this quantity. Conceptual intervals of this may be “long run” or “short run,” depending on what factors are allowed to adjust. As wages go up, workers initially allocate more of this quantity on labor, and spend the rest in leisure. For 10 points, name this quantity measured in days and minutes.

ANSWER: time

<Bailey>

12. A creature spawned by this male figure's journeys eventually killed the Argonaut Mopsus. This figure defeated a maenad army in Mycenae, where he may have briefly killed Dionysus. His son Electryon was the father of Alcmene and inherited Tiryns. As a child, this man was raised on the isle of Seriphos by the fisherman Dictys. This man fulfilled a prophecy by accidentally (*) killing his grandfather Acrisius with a discus, and also killed Polydectes. Chrysaor was born from one victim of this hero, who received Cronus' sickle and a magical bag. This interrogator of the Gray Sisters used Hermes' winged sandals to save a woman who was chained in front of a sea monster in Ethiopia. For 10 points, name this son of Danae, who rescued Andromeda and slew Medusa.

ANSWER: Perseus

<Silverman>

13. **This mountain is the tallest one accessible via the town of Skardu. This mountain rises near the Shaksgam River and the Baltoro Glacier lies between it and the Masherbrum Mountains. The Abruzzi Spur is the most frequent route up this mountain in Gilgit-Baltistan, which was first summited by the Italians Achille Compagnoni and Lino Lacedelli. Once called Mount (*) Godwin-Austen, this Kashmiri peak, the tallest in the Karakoram Range, is nicknamed "Savage Mountain." Lying on the China-Pakistan border, it is usually known by its surveyor's mark. Deadlier per capita and 237 meters shorter than Mt. Everest, this is, for 10 points, what tersely named second-tallest mountain in the world?**

ANSWER: **K2** [or **Qogir** Feng; or **Kechu**; or **Ketu**; or **Qiaogeli** Feng; or **Ch'iao-ke-li** Feng; or **Chogori**; or **Dapsang**; or **Qogri**; accept "Mount **Godwin-Austen**" until mentioned; prompt on "Karakoram 2" or "Karakorum 2" until "Karakoram"]

<Wasserman>

14. **One method of drawing these diagrams is to produce bundles around invariant points using Schreinemaker's method. Software packages like THERMOCALC use the CALPHAD method for drawing these figures. For minerals, this diagram is used to display various polymorphs. The formula C minus P plus 2 is used to find the degrees of (*) freedom at each point in these diagrams. For binary systems, these diagrams can display the eutectic and peritectic points. These plots often show temperature and pressure on their axes and show coexistence curves as lines. These diagrams also show the triple and critical points. For 10 points, name these plots that display the state variables at which a system exists as a solid, liquid, or gas.**

ANSWER: **phase** diagram

<Mukherjee>

15. **This character is locked in a room by a political dissident who wrote a book comparing people to fruit that grow on a tree planted by God. He is known as "6655321" for a period during which he is employed playing music on the stereo at the Wing Chapel. He uses a weapon called a britva and refers to himself as "Your Humble Narrator". Dr. Branom and Dr. Brodsky force this character to watch films of (*) murder and rape while classical music plays; that experience with the "Ludovico technique" ruins his love of Beethoven. He enjoys drinking at the Korova Milk Bar along with Dim, Georgie, and Pete. For 10 points, name this Nadsat-speaking leader of a gang of "droogs", the protagonist of Anthony Burgess' *A Clockwork Orange*.**

ANSWER: **Alex DeLarge** [accept either underlined portion]

<Cheyne>

16. **David Marshall became so efficient at defending criminals in this country that it credited him with spurring the abolition of jury trials. Members of the Barisan Sosialis Party were arrested in this country during Operation Coldstore. This site of the Hock Lee Bus Riots was "cleansed" of ethnic Chinese under the Sook Qing policy in an occupation that followed the largest surrender in British military history. This country's People's Action Party prolifically sued political opponents under (*) Lee Kuan Yew, who allowed American Michael Fay to be caned for vandalism here in 1994. Stamford Raffles founded the British East India Company outpost that became the modern form of, for 10 points, what small island city-state at the southern tip of the Malay Peninsula?**

ANSWER: Republic of **Singapore**

<Bentley>

17. One piece by this composer ends with a third movement *Presto in moto perpetuo* and was written for Iso Briselli. A series of poems by Irish monks formed the basis for his *Hermit Songs*, and his first piece for solo piano is called *Excursions*. In another piece by him, the soloist proclaims "It has become that time of evening when people sit on their porches." Another of his works, which was later re-used for his setting of the (*) *Agnus Dei*, was premiered in 1938 on the radio by Toscanini and the NBC Symphony. He set a prose poem by James Agee in his *Knoxville: Summer of 1915*, but is most famous for a reworking of the second movement of his *String Quartet*. For 10 points, name this American composer of *Adagio for Strings*.

ANSWER: Samuel Barber

<Rosenberg>

18. The protagonist of one novel set in this country gets letters from her rebellious sister Hasina, is seduced by a clothes worker named Karim, and loathes trimming the corns of her arranged husband Chanu. Nazneen lives in the Tower Hamlets in this country in *Brick Lane*. Keiko becomes antisocial and commits suicide after moving to this country with her mother Etsuko in A (*) *Pale View of Hills*. In another novel set in this country, the protagonist ponders terms like "dignity" and "greatness" and reflects on a failed romantic relationship with Miss Kenton, a fellow servant of Lord Darlington. For 10 points, name this country, the home of such immigrant writers as Monica Ali and *Remains of the Day* author Kazuo Ishiguro.

ANSWER: England [or Great Britain; or United Kingdom of Great Britain and Northern Ireland]

<Gupta>

19. If the generating set of an abelian group has this property, the group can be decomposed into a direct sum of invariant factors. Fields with this property feature polynomials that are irreducible when the coefficients of the polynomial are elements of said fields, and the order of said fields is a power of a prime. State machines that are named after this property can only accept regular languages. Sets whose cardinality have this property have no (*) one-to-one mapping from a proper subset of the set to the set itself. A set with this property will have a cardinality that is a natural number. This property is not possessed by the set of primes according to proofs by both Euclid and Euler. For 10 points, name this property of not being infinite.

ANSWER: finite [do NOT accept "countable" at any point]

<Jose>

20. During part of this battle the *Chickasaw* broke off to engage Fort Powell and Dauphin Island was evacuated. Ammunition stores surrendered during this battle exploded two weeks after the end of the war, devastating the wharf of a nearby city. The major ship on one side of this battle was the *Tennessee*, though the Fort Morgan guns played a larger role for the defenders. At the start of this battle, the (*) *Tecumseh* was sunk by a mine, inspiring the winning commander to climb the rigging of the *Hartford*. This battle closed the last unblockaded port on the Gulf of Mexico. For 10 points, name this battle in an Alabama inlet during the Civil War, where David Farragut apocryphally proclaimed, "Damn the torpedoes, full speed ahead!"

ANSWER: Battle of Mobile Bay

<Weiner>

21. In one novel by this author, Captain Warley serves as a *deus ex machina* and Judith is saddened by the discovery that her father, the trader Floating Tom Hutter, used to be the pirate Thomas Hovey. Another of this man's novels describes the competition between Davy Muir, Jasper Western, and the protagonist for the affection of Mabel Dunham. He created the singing teacher David (*) Gamut for a novel in which a villain known as "Le Renard Subtil" assists the Marquis de Montcalm and kidnaps Cora Munro. In that novel by this author, Magua's murder of Uncas is avenged by Chingachgook's lifelong companion Natty Bumppo. For 10 points, name this American author whose *Leatherstocking Tales* include the novel *The Last of the Mohicans*.

ANSWER: James Fenimore Cooper

<Morlan>

22. One phase of this campaign involved moving northwest in the shape of a sickle in a plan formulated by General Manstein. Later in this campaign, the victors overwhelmed the Weygand Line. A "free zone" was one of the three subdivisions created by the Second Armistice at Compiegne that concluded this campaign. The end of this campaign saw Operation Dynamo, where troops under Lord Gort boarded the "little ships" and were (*) evacuated. This campaign took place after the so-called Phoney War and ended with the Battle of Dunkirk. It saw the victors moving through Ardennes to get around the ineffective Maginot Line. For 10 points, name this 1940 military campaign that toppled the Third Republic and led to the occupation of Paris.

ANSWER: Nazi German Invasion of France in World War II [or Battle of France or Fall of France or Fall Gelb or Case Yellow; accept any equivalents that describe Nazi Germany conquering France; accept Fall Rot and Case Red; prompt on "blitzkrieg" or "World War II"]

<Bentley>

23. Examples of the "double" type of this function include the asymptotic runtime of evaluating a statement in Presburger arithmetic, as well as that of generating a Gröbner basis via Buchberger's algorithm. The number of inputs to a multiplexer is proportional to this function of the number of select lines. If P is (*) not equal to NP, then the fastest algorithm for solving the traveling salesman problem will have a runtime described by this function, which is considered the fastest computationally intractable runtime. For 10 points, name this mathematical function that is the inverse of the logarithmic function, often represented with the letter e.

ANSWER: exponential function [or e before mention; accept 2 to the n or whatever variable]

<Jose>

24. This amino acid is unusually brominated in a peptide found in the venom of marine cone snails. Plant auxins are synthesized from this amino acid, which through a kynurenine intermediate is the precursor of niacin. High levels of this substance cause the formation of a 3-4 stem loop and allows the complete translation of a leader peptide, which in turn allows synthesis of a polycistronic RNA from genes A through E of its namesake repressible (*) operon. Its hydroxylation is the first step in the synthesis of serotonin. This amino acid is coded for by only one codon, UGG, and has a very bulky, aromatic indole side chain. For 10 points, name this amino acid symbolized W, which is often incorrectly assumed to be responsible for turkey-induced drowsiness.

ANSWER: tryptophan [or trp; accept W before mention]

<Mukherjee>

1. Martin Amis's essay "Don Juan in Hull" is about this man, who wrote a poem in which the "stone fidelity" of the carvings of an earl and a countess "prove our almost-instinct almost true: What will survive of us is love". For 10 points each:

[10] Identify this British poet of "An Arundel Tomb" who advised not having children and described the adverse effects of "your mum and dad" in "This Be the Verse".

ANSWER: Philip Arthur **Larkin**

[10] "An Arundel Tomb" is found in this Larkin collection, whose title poem describes "mothers loud and fat" and brides in "parodies of fashion" as the speaker travels on a train from Lincolnshire to London.

ANSWER: *The **Whitsun Weddings***

[10] Some obituaries of Philip Larkin referred to him as the "best Poet Laureate England never had". Perhaps the greatest who did hold the post was this author of *The Prelude*, "Ode: Intimations of Immortality", and "Tintern Abbey".

ANSWER: William **Wordsworth**

<Bentley>

2. Rippling arpeggios depict a water feature in this composer's *Jeux d'eau*. For 10 points each:

[10] Name this French Impressionist composer of *Gaspard de la nuit* and *Boléro*.

ANSWER: (Joseph-)Maurice **Ravel**

[10] Each movement of this Ravel piano suite is dedicated to a different friend who had died in World War I. It employs Baroque dance forms like the "Forlane" and "Rigaudon" and is named after a Baroque composer.

ANSWER: *Le **Tombeau de Couperin***

[10] Ravel later orchestrated the "*Une barque sur l'océan*" and "*Alborada del gracioso*" movements of this piano suite of his. It concludes with a piece depicting a valley of bells.

ANSWER: **Miroirs** [or **Reflections**]

<Lawrence>

3. This man said "The question is not, Can they reason? nor, Can they talk? but, Can they suffer?" in deciding not to excessively harm animals. For 10 points each:

[10] Name this British thinker whose body was preserved after his 1832 death. He devised the Panopticon prison and the Greatest Happiness Principle for proper ethical conduct.

ANSWER: Jeremy **Bentham**

[10] Bentham started this ethical school, which believes that maximizing the happiness of a maximal number of people is the only good.

ANSWER: **utilitarianism**

[10] This living Australian utilitarian argued for extending human empathy to animals even further in his 1975 book *Animal Liberation*.

ANSWER: Peter **Singer**

<Jackson>

4. Answer some questions about coin-flipping, for 10 points each.

[10] If I flip a coin four times in a row, this is the probability of obtaining all tails.

ANSWER: 1/16 [or one-sixteenth or 0.0625]

[10] Any instance of flipping a coin has this property relative to other instances. If two events have this property, finding the probability of both of them happening is just a matter of multiplying their individual probabilities.

ANSWER: independent

[10] This statistical distribution gives the probability of having k successes in n draws, when the draws are done with replacement.

ANSWER: hypergeometric distribution

<Mukherjee>

5. This country announced the closure of the Laiki Bank in March 2013. For 10 points each:

[10] Name this former European tax haven, which expropriated a significant number of accounts in exchange for a ten-billion-euro EU bailout.

ANSWER: Republic of Cyprus [or Kypriaki Dimokratia; or Kibris Cumhuriyeti; or Kibros]

[10] This term, also applied to the loss of value of a risky investment when used as loan collateral, was used for the 27 to 37 percent of accounts above 100,000 euros that were taken by the Cypriot government during the bailout arrangement.

ANSWER: the "haircut"

[10] Most of the large accounts in Cypriot banks were held by citizens of this country, which has threatened reprisals against German institutions. This country also made headlines in 2013 for banning adoptions to the United States and selling MiG fighters to the Syrian government.

ANSWER: Russian Federation [or Rossiyskaya Federatsiya; or Rossiya]

<Weiner>

6. The namesake of this revolt was asked, "when ... do you mean to cease abusing our patience" in an oration against him given by Cicero. For 10 points each:

[10] Identify this 63 BCE plot to burn Rome and arm its slaves.

ANSWER: Second Catiline Revolt [or Second Catiline Conspiracy or Catiline's War]

[10] Lucius Sergius Catiline launched his revolt after he failed to get elected to this office for the third time. Two men served in this highest regular office for one-year terms, and they were given 12 lictors.

ANSWER: consul [or consules]

[10] The Catiline Conspiracy was the subject of a monograph by this Roman historian, who chronicled the Jugurthine War and was expelled from the Senate for opposing Cicero. He later commanded a legion under Julius Caesar.

ANSWER: Sallust [or Gaius Sallustius Crispus]

<Bentley>

7. Enzymes are an example of biological ones. For 10 points each:

[10] Name these compounds that increase the rate of a chemical reaction by lowering its activation energy.

ANSWER: catalysts

[10] Heterogeneous catalysts often work by this phenomenon, since the reactants will collect on its surface. This phenomenon is the accumulation of molecules on the surface of another.

ANSWER: adsorption [listen very carefully to make sure absolutely not to accept the similarly sounding "absorption", have them spell it out if you're not sure]

[10] Once reactants have been converted to products via a heterogeneous catalyst, they leave the surface of the catalyst by this process, the inverse of adsorption.

ANSWER: desorption

<Jose>

8. An image from Yeats's poem "Vacillation" inspired the name of this author's *Flaming Green Tree* trilogy. For 10 points each:

[10] Identify this man, the second Japanese author to win the Nobel Prize in Literature. Mitsusaburo's brother Takashi leads an uprising against a Korean called "the Emperor" in this man's novel *The Silent Cry*.

ANSWER: Kenzaburo Oe [accept names in either order]

[10] A group of boys from a reform school are sent to a remote village in Shikoku, only to be trapped there by fleeing villagers when a plague breaks out, in this first novel by Kenzaburo Oe.

ANSWER: *Nip the Buds, Shoot the Kids* [or *Memushiri Ko-uchi*; or *Pluck the Bud and Destroy the Offspring*]

[10] A number of Oe's works, including *Teach Us to Outgrow Our Madness* and *A Personal Matter*, contain fictionalizations of this person. Oe characters based on this person, a composer in real life, are given names including "Eeyore" and "Mori". A general description is acceptable.

ANSWER: Hikari Oe [or Hikari Oe; accept "Kenzaburo Oe's mentally-handicapped son" or "his own son" or other equivalents that describe him as Oe's child]

<Carson>

9. Domingo Sarmiento's *Facundo* attacks this leader by unfavorably comparing him to the title gaucho. For 10 points each:

[10] Identify this man who opposed the Unitarios under José María Paz and led the Federal Pact during his two-decade rule as dictator of Argentina.

ANSWER: Juan Manuel de Rosas

[10] Rosas led Argentina by governing this province, whose namesake city is still the national capital.

ANSWER: Buenos Aires Province

[10] During the First Conquest of the Desert, Rosas personally led troops against the Ranquel under Yanquetruz in this flat grassland region shared by Argentina, Uruguay, and Brazil. Its name comes from the Quechua for "plains."

ANSWER: Pampas

<Bailey>

10. Name these martyrs who were sainted by the Catholic church, for 10 points each.

[10] This patron saint of England was executed by Diocletian. In medieval tales, he went to Silene to slay a dragon.

ANSWER: Saint George of Lydda

[10] This martyr picked up his severed head and kept preaching after being executed on orders from Trajan Decius. He is buried in a namesake French abbey that was renovated by Abbot Suger in the 12th century.

ANSWER: Saint Denis [or Saint Dennis or Saint Denys or Saint Dionysius]

[10] This early Church Father was a bishop of Antioch who called himself Theophorus and wrote letters to fellow bishop Polycarp. Around 100 CE, he was thrown to the lions.

ANSWER: Saint Ignatius of Antioch [do not accept "Saint Ignatius of Loyola" or other wrong answers]

<Bentley>

11. Answer the following about World War II literature, for 10 points each.

[10] This Joseph Heller novel is about an Air Force squadron on the island of Pianosa. Its characters include Yossarian, Milo Minderbinder, and Major Major Major Major.

ANSWER: **Catch-22**

[10] This man described the Pacific front in his first novel, *The Naked and the Dead*. This cofounder of the *Village Voice* also wrote about the Vietnam War in his book *Armies of the Night*.

ANSWER: Norman Kingsley **Mailer**

[10] This Armenian-American author wrote about a messenger boy's experiences during the war's homefront in his novel *The Human Comedy*. He also wrote a play set at Nick's Pacific Street Saloon.

ANSWER: William **Saroyan**

<Cheyne>

12. Kentucky's James McGready is often credited with the idea for these events, and held one at Red River in 1800. For 10 points each:

[10] Identify these open-air, interdenominational events popular during the early 19th century. A particularly large one of these events took place in Cane Ridge in 1801.

ANSWER: **camp meetings** [prompt on "revivals"]

[10] Camp meetings were fixtures of the second movement of this name. The first movement of this name involved men like George Whitefield and Gilbert Tennent, and saw an increase in religious sentiment in 18th century America.

ANSWER: **Great Awakening**

[10] This denomination sprung up during the Second Great Awakening and subscribed to the 28 Fundamental Beliefs. Members of this faith pay particular attention to the three angels of Revelation and to the prophecies of co-founder Ellen White.

ANSWER: **Seventh-day Adventist** Church [or **Seventh-day Adventism**]

<Bentley>

13. This character intervenes to save Pierre Gringoire from execution at the hands of Clopin Trouillefou, who later rallies the Truands to rescue her. For 10 points each:

[10] Name this character who is framed for the murder of her would-be lover, Captain Phoebus, by Claude Frollo.

ANSWER: **Esmeralda** [or **Agnes**]

[10] *The Hunchback of Notre Dame* was written by this French author of *Les Misérables*.

ANSWER: Victor Marie **Hugo**

[10] Hugo's most famous poem, "At Villaquier," describes "that instant -- too much for tears!" when he learned about this tragic event, which left him devastated and inspired much of his poetry.

ANSWER: the **death** of his **daughter** Leopoldine in a boating accident [accept things like "the **drowning** of his **daughter**" or "the **death** of **Leopoldine** Hugo"; prompt on less specific answers like "the death of his child"]

<Gupta>

14. The dynamic viscosity divided by this quantity gives the kinematic viscosity. For 10 points each:

[10] Name this quantity often symbolized rho, which is equal to the mass of an object divided by its volume.

ANSWER: **density**

[10] This principle states that the buoyant force on an object in a fluid is equal to the product of the density of the fluid times the volume of the object times the acceleration due to gravity.

ANSWER: **Archimedes'** principle

[10] This quantity is equal to the density times the derivative of pressure with respect to density. It is also the inverse of the compressibility.

ANSWER: **bulk modulus** [or **K**]

<Busse>

15. This man's military victories included a defense of Gergovia fort. For 10 points each:

[10] Identify this leader of the Arveni tribe. He was marched to Rome in chains after he lost at the Battle of Alesia.

ANSWER: **Vercingetorix**

[10] Vercingetorix was defeated by this Roman general, who famously crossed the Rubicon River in 49 BCE.

ANSWER: Gaius Julius **Caesar**

[10] Vercingetorix launched one attack to take advantage of the recent death of this Roman at the hands of T. Annius Milo. This enemy of Cicero was once caught sneaking into a Bona Dea celebration dressed as a woman.

ANSWER: Publius **Clodius** Pulcher

<Bentley>

16. This critic brought greater prominence to artists like Helen Frankenthaler and Morris Louis with his 1964 exhibition, "Post-Painterly Abstraction." For 10 points each:

[10] Name this author of *Modernist Painting*, an early advocate of abstract expressionism, which he championed as an alternative to mass culture in "Avant-Garde and Kitsch."

ANSWER: Clement **Greenberg**

[10] The quintessential action painter was this man, who dripped and threw paint on the canvas to create works like *Autumn Rhythm*. He was married to Lee Krasner.

ANSWER: Jackson **Pollock**

[10] Although most of Pollock's mature works do not depict any recognizable concrete images, his most famous work may be this one at the National Gallery, which contains multiple handprints near the upper edges and is suffused with a pink tint which gives the work its name.

ANSWER: [No. 1] **Lavender Mist**

<Rosenberg>

17. Raymond Cattell developed a "culture-fair" method of testing this value, which in children is quantified on the Wechsler scale. For 10 points each:

[10] Identify this characteristic with "crystallized" and "fluid" varieties that is often assessed by the Stanford-Binet test.

ANSWER: **intelligence** [or **IQ**; or **intelligence quotient**]

[10] Evidence for cultural dependence of IQ testing includes the Flynn effect, which is the tendency of IQ scores, absent all other factors, to do this.

ANSWER: **rise** over time [or **go up**; or **get better** or other equivalents]

[10] This Stephen Jay Gould book claimed that the idea of a single biologically determined intelligence was an artifact of racist thinking.

ANSWER: *The **Mismeasure of Man***

<Weiner>

18. This bandleader formed a smaller jazz combo called his Gramercy Five. For 10 points each:

[10] Name this swing-era bandleader known for his recordings of "Begin the Beguine" and a jazz arrangement by William Grant Still of "Frenesi".

ANSWER: Artie **Shaw** [or Arthur Jacob **Arshawsky**]

[10] Artie Shaw played this single-reed woodwind instrument. Other jazz players of this instrument include Barney Bigard and Benny Goodman.

ANSWER: **clarinet**

[10] Artie Shaw also had a hit with "Stardust", a tune by this pianist and songwriter, who also wrote "Georgia on My Mind" and "Heart and Soul".

ANSWER: Hoagy **Carmichael**

<Lawrence>

19. This deity stole fire from the fingernails of Mahu-ika and lassoed the sun. For 10 points each:

[10] Name this Polynesian folk hero who lifted many islands, including one named for him, out of the sea with a fishhook.

ANSWER: **Maui**-tikitiki [or **Ti'iti'i**]

[10] This other Hawaiian goddess controls volcanic activity and lives in a fire pit at Kilauea.

ANSWER: **Pele**

[10] In some versions, Maui used the jawbone of this relative of his as his fishhook. Anticleia had this relation to Telemachus.

ANSWER: his **grandmother**

<Jackson>

20. Name these molecular biologists, for 10 points each.

[10] This scientist put forth the "adaptor hypothesis" of how a DNA sequence could specify an amino acid sequence a few years after elucidating the double helix structure of DNA itself along with John Watson.

ANSWER: Francis Harry Compton **Crick**

[10] This scientist sponsored a maritime expedition to study marine genetic biodiversity aboard his private yacht, but is better known for founding Celera Genomics, which undertook the precursor to the Human Genome Project.

ANSWER: John Craig **Venter**

[10] This biologist chanced upon an enzyme which polymerizes DNA during replication, though his son Thomas isolated DNA Polymerases II and III, which actually do the brunt of the work.

ANSWER: Arthur **Kornberg**

<Gupta>

21. Sunspots form on this region. For 10 points each:

[10] Name this layer of the sun's atmosphere which lies below, and is cooler than, the sun's chromosphere.

ANSWER: **photosphere**

[10] The outermost layer of the sun is this region, which is visible during a solar eclipse. The high temperature of this region induces high-energy particles to be released as the solar wind.

ANSWER: **corona**

[10] Granules on the sun are formed from granulation, a process driven by a turbulent form of this mechanism. On the sun, this process forms Bénard cells due to energy transfer between two parallel planes.

ANSWER: **convection** [accept word forms]

<Jose>

22. Answer the following about self-identified enlightened despots, for 10 points each:

[10] This Russian ruler was a patron of Voltaire, but also put down Pugachev's Rebellion. Her royal favorites included Grigory Potemkin and Grigory Orlov.

ANSWER: **Catherine the Great** [or **Catherine II** or Yekaterina **Alexeevna**]

[10] When asked his thoughts on the American Revolution, this Austrian ruler and enlightened despot replied, "Madam, it is my trade to be a King". This son of Maria Theresa liberalized the curriculum of the University of Vienna and abolished the Robot Patent.

ANSWER: **Joseph II** [or **Joseph** Benedikt Anton Michael Adam **II**]

[10] Grand Duke Leopold II ruled a duchy of this name as an enlightened despot from 1824 until 1859. Napoleon founded the Kingdom of Etruria in this region.

ANSWER: Grand Duchy of **Tuscany** [or **Toscana**]

<Bentley>

23. A literary character holds a book up to a mirror in order to read this poem, which introduced the word "chortle" to the English language. For 10 points each:

[10] Name this poem which opens "'Twas brillig, and the slithy toves did gyre and gimble in the wabe." It describes a "vorpal blade" going "snicker-snack!" as a boy beheads a hideous creature.

ANSWER: **"Jabberwocky"** [do not accept "Jabberwock"]

[10] "Jabberwocky" was written by this British author and mathematician, better known for his novels *Alice's Adventures in Wonderland* and *Through the Looking Glass*.

ANSWER: Lewis **Carroll** [or Charles Lutwidge **Dodgson**]

[10] In Carroll's "The Hunting of the Snark", the reader is warned that if a hunted Snark turns out to be one of these creatures, "you will softly and suddenly vanish away". The Baker's death in the middle of saying this word led some critics to theorize that he was killed by the Boots.

ANSWER: a **Boojum**

<Berend>