

1. Towards the end of July an unsuccessful assassination attempt by Alexander Berkman took most of the sympathy away from one side of this struggle and by August 12 the other side had more or less resumed full production, aided by the soldiers sent in under the order of Governor Robert Pattison some two weeks before and by the capitulation of Hugh O'Donnell. Prior to that, one side had used a flotilla of small ships and even cannon fire to clear the Monongahela of interlopers, with the result that ten men were killed and seventy wounded both from the employees and the Pinkertons brought in to quell the strike by Henry Clay Frick. For 10 points name this exceedingly violent labor dispute of 1892 at the namesake Pennsylvania town.

ANS: Homestead Strike

2. Its inhabitants are unpleasant and can be rather brutal, maintaining control over subject lands by blotting out the sun, aerial bombardment, and even threats of a huge mass that will descend and crush opponents, although this was successfully resisted by the city Lindalino. Due its distracted male inhabitants, clothing is poorly made, lodgings are rickety, and the women hate it there, which the express by flagrant sexual indiscretions in front of their husbands since they are forbidden from leaving to go to Balnibarbi. For 10 points name this area whose name is Spanish for "The Whore", less because of the infidelities of women but because the men are constantly distracted by the "whore" of abject reasoning, a floating island encountered by Lemuel Gulliver in book III of his eponymous travels.

ANS: Laputa

3. The occupants of a car are protected during a thunderstorm not because the car is one of these objects, but are in fact protected because of the skin effect. Many buildings vital to National Security are built to be these objects in order to protect from Electromagnetic Pulse. Its properties were first predicted by Francesco Beccaria in the 1700s, but it was first demonstrated by its namesake in 1836, who lined a chamber with metal foil and subjected it to electrical current while using an electrometer to show that no charge existed within the room, since electrical charge will tend not penetrate the interior of things made from conducting material. For 10 points name this structure named for its British discoverer, who also discovered electromagnetic induction and diamagnetism.

ANS: Faraday Cage or Shield

4. In most accounts he won his bride after performing a task which led him to do eight years of servitude for Ares, who most myths say was the father of this man's bride with Aphrodite, and that task also resulted in him gaining the companions Udaeus, Chthonius, Hyperenor, Pelorus, and Echion, the latter of whom helped him found his kingdom and later father his successor Pentheus on this man's daughter Agave. Also the father of Ino, Semele, and Autonoë with his wife Harmonia, for 10 points name this son of Agenor and Telephassa who set out from Phoenicia to find his sister Europa but eventually gave up to found Thebes.

ANS: Cadmus

5. Indirect ones include the practically invisible depiction in the object hanging on the wall behind the married couple in the *Arnolfini Wedding*, and in a sense the object held by St. Bartholemew in Michelangelo's *Last Judgement* also functions. Bolder still is the one found to the far right in *The School of Athens* next to the figures representing Ptolemy. While the figure on the left of Velazquez's *Las Meninas* is completely unambiguous, it is still not direct example in that the figure is not the subject of the painting in the same sense that a series by Albrecht Durer, another by Rembrandt, and a famous work by Parmigianino using a convex mirror definitely are. For 10 points name this term most properly applied to paintings in which the primary subjects are the artist themselves.

ANS: Self-Portrait (accept reasonable equivalents)

6. Guided by Freud, the author of this work argues that the legends in question have their origins in the psychological experiences of young boys, during which the initial awe of their parents gives way to the urge to rebel against and even kill the father in adolescence and that this is justified by the fantasy that the alleged father is not the real one but a stand-in for a god or king, thus liberating the boy from guilt both for that and for any sexual attraction to sisters or other female family. For 10 points name this psychoanalytic analysis of such stories as that of Sargon, Moses, Perseus, Romulus, and Cyrus, a work by Otto Rank.

ANS: *The Myth of the Birth of the Hero* (*Der Mythos von der Geburt des Helden*)

7. Sometimes classified as a horror, this movie is sometimes screamingly funny, as seen in the scene when an ATM demands that the main character feed it a stray cat, or in the impromptu music reviews which usually precede acts of stunning violence. The main character on several occasions directly refers to his own insanity, telling a model that he's into "murders and executions" which she mishears as "mergers and acquisitions" and telling another victim that he likes to "dissect girls", though when pressed uncomfortably he tends to evade unpleasant situations by leaving to "return some videotapes". For 10 points name this adaptation of a Brad Easton Ellis novel, a film starring Chloe Sevigny, Willem Defoe, Josh Lucas, and Christian Bale as the title lunatic.

ANS: American Psycho (prompt on "Patrick Bateman")

8. No insects or any invertebrates except locusts are considered to have this status, nor is anything which touches blood nor any of the many things specifically designated as *treif* (trayf), some believe that things like wine only gain this status when made by adherents, while certain other things which do have this status but are not simultaneously *pareve* (par-ev-uh) lose it when coming into contact with other substances, such as when meat touches cheese. Never including pork at any time nor leavened bread during Passover, for 10 points name this designation given to foods which pass standards of *kashrut* and which observant Jews may lawfully eat.

ANS: Kosher

9. He would be plagued by charges that he was promoted because of political connection rather than for merit, for example when he became Brigadier General directly from the rank of Captain, mostly due to his actions at the Cagayan River and his success against the Moro tribes in the Philippines. His sensitivity and sympathy for African American troops led to his command of Buffalo Soldiers in the Indian Wars, it is for this as well as his sternness and his mourning of the loss of his wife and three daughters to fire, that he earned his famous soubriquet. Despite a lack of success capturing Pancho Villa in 1916, for 10 points name this general, the only living officer ever to be named General of the Armies of the United States, largely for his command of the American Expeditionary force in World War I.

ANS: John J. "Black Jack" Pershing

10. Some of his shorter pieces include "The Author of *Beltraffio*," in which an author is tormented by his wife that hates his work and withholds medicine from their sickly child, and "The Madonna of the Future," about a frustrated artist who can never quite realize his vision of the Virgin Mary. But he is better known for works chronicling the plights of Christopher Newman, Isabel Archer, Maggie Verver, and Lambert Strether, all Americans struggling to adapt to European morality on the continent, presumably mirroring the author's own experience. For 10 points name this American expatriate author of *The American*, *Portrait of a Lady*, *The Golden Bowl*, and *The Ambassadors*.

ANS: Henry James

11. Among the interesting deep sky objects, among which being the galaxies M95 and M96 as well as M65, M66, and NGC 3628, known as this constellation's *Triplet*, while another collection of eight Messier objects was once a part of this constellation but, according to a story recounted in the Latin poet Hyginus among others, was detached from it to become the separate Coma Berenice. Its epsilon, mu, zeta, and gamma stars, known respectively as Rasalas Australis, Rasalas Borealis, Adhafera, and Algieba, make up the "Sickle" along with the unnamed eta star and the star's brightest, known as Regulus. For 10 points name this constellation representing in mythology the carcass of the Nemean Lion.

ANS: Leo

12. A diamond ring this character had once sold in the first book in which he appears, is later returned to him in the second to entice him on a mission to recruit his old friends back into service and stop a mysterious Frondeur. It is in that second book that he accidentally kills his one-time enemy and now friend, the Comte de Rochefort, but while he meets his end at the siege of Maastricht in the third book shortly after being made Marshal of France, it is in the first book that he pulls off his most famous exploits, which includes scheduling duels against three men on the same day. Eventually befriending Porthos, Athos, and Aramis, for 10 points name this Gascon noble who is actually not one of the title characters but is actually the hero of *The Three Musketeers*.

ANS: D'Artagnan (he is given no first name in the book)

13. Its flag is based on the foreign state of whom a representative ruled this area until 1815 and until 1946 was decorated with an escutcheon featuring a white cross on a red background, the coat of arms of the House of Savoy which still maintains a weak claim on the now-defunct throne of this nation. Including the Sovereign Military Hospitaller Order of Saint John of Jerusalem as one of three microstates located within its territory, its unofficial national anthem invites all men to "form a cohort" and be ready to die, , reminding its hearers that Victory will soon now down to the country

wearing the helmet of Scipio. For 10 points name this country also containing the independent nations of San Marino and the Vatican city, whose capital is Rome.

ANS: Italy

14. For its time the special effects of this film were astonishing, including not only that used in its most famous scene but also one in which G.W. Anderson appears to be brained by a lump of coal and hurled from a moving vehicle, even though it was only a puppet being thrown. Anderson plays several characters, including a passenger who attempts to run away but is immediately killed during the title action, although it is ultimately the performance of Justus Barnes which is most remembered in an iconic scene which is slyly referenced at the end of both *Goodfellas* and *The Usual Suspects*. For 10 points name this film made for Thomas Edison in 1904 and directed by Edwin Porter, a film about a locomotive holdup perhaps most famous for the ending shot when Barnes points his gun and fires at the camera.

ANS: The Great Train Robbery

15. One controversy involving Catherine Grandisson, the Countess of Salisbury, and this man is one in which either she or her daughter-in-law, the one-time Joan of Kent, loses an item of apparel which leads this man to found the Order of the Garter, but on firmer historical ground is his willingness to spare the city of Calais on behalf of his wife Philippa of Hainault shortly after his great victory against the French in 1346. For 10 points name this Plantagenet king of England responsible for the battle of Crecy and for pressing English claims during the first part of the Hundred Years War.

ANS: Edward III

16. His most recent novel, *July, July*, finds its impetus in the class reunion of late middle-agers who came of age in the late sixty. His previous novel, *Tomcat in Love*, told the story of a seriously delusional amateur magician who once snatched on his unit after a My Lai-esque tragedy. In the eighties he set his novel, *The Nuclear Age*, in an alternative 1995 still gripped with Cold War paranoia. He began his first book, *If I Die in a Combat Zone*, while still serving a tour in Vietnam. FTP, name this National Book Award winner for *Going After Caciatto*, perhaps most famous for *The Things They Carried*.

ANS: Tim O'Brien

17. This process can be used in the isolation of steroids from natural substances after those substances have been treated in alcohol, after which this process can be used to split the esters to let the sterol be harvested by means of water-immiscible solvents like hexane. A more bizarre substance for which it is responsible is adipocere or "grave wax" which forms on the cadavers of persons with high body fat in buried in wet alkali soil, which mimics the typical process whereby a fat or oil is reacted with an alkali base to yield glycerol and the substance which gives the process its name. Often formerly done by boiling animal tallow or olive oil with wood ash, for 10 points name this process by which soap is made.

ANS: saponification

18. Recent research indicates that clay soil may be act as an infectious reservoir for these pathogens, thus explaining the spread of CWD in deer and elk. They are caused by the irregular secondary structure of abnormal PrP proteins, which develop in cross-beta filaments, instead of alpha-helices and consequently become resistant to protease. They were first described after study of the ovine disease, scrapie, and their discovered earned the 1997 Nobel Prize in Medicine for Stanley B. Prusiner. FTP, what are these infectious agents which consist only of protein and which are responsible for TSEs, such as Creutzfeld-Jakob and BSE?

ANS: Prions

19. Escape was not exactly the purpose for this event, though some participants managed to sneak out after after the suicide of its leaders at 18 Mila Street, which provides the name for the Leon Uris novel set during this episode. The final engagement began on April 19<sup>th</sup>, the eve of Pesach, and while it famously did not claim the life of Vladislav Szpilman (SHPEEL-man), it was finally defeated by the death of Mordecai Anielewicz (An-EEL-uh-witz) before the destruction of the Tlomacki Street Synagogue on May 16, 1943. For 10 points name this event, the subject of the Made-for-TV film *Uprising*, in which a group of Jewish insurgents, rather than be sent to Treblinka, launched an attack on the Nazis from the namesake area of the Polish capital to which they had been segregated.

ANS: Warsaw Ghetto Uprising

20. As a professor of physics at the University of Adelaide in the 1880's, he apprenticed himself to a firm of instrument makers, gaining knowledge which enabled him to build all his own devices and ultimately to invent an ionization spectrometer. It was through the use of this device that the equation  $n \lambda = 2 d \sin \theta$  would be



discovered, though he would maintain that this equation and the law which used it to describe the ways x-rays scatter electrons in crystals was really the work of his son. For 10 points name this physicist whose surname the aforementioned equation and law would bear, and over whose protest he was awarded a share of the 1915 Nobel Prize in physics.

ANS: Sir William Bragg (prompt on Bragg until the word "son" is read)

21. One of the most famous translators of the stories about this figure notes the resemblance between the escape of Aristomenes from the cavern of the Caeadas and the main figure's escape from premature entombment in the fourth tale. Similarly, the giant that eats the main characters companions in the third tale is held to be Polyphemus. However, that translator, Richard Burton, can find no classical parallel to the demons which nearly fly the main character to heaven but catch fire when the character praises Allah. Told by the title mariner to a similarly named porter and in turn relayed between nights 536 and 566 by Scheherazade, for 10 points name this ocean-going subject of seven voyages in the *Arabian Nights*.

ANS: Sinbad

22. Some Classical historians refer to the war fought from 220 to 217 BCE between Philip V and the Hellenistic League against the combined forces of Sparta, Elis, and the Aetolians given the fact that confederates of both the main combatants did much of the fighting. Another war which is far more conventionally given this name – a somewhat imprecise translation of the Greek *polemos summachos* (POE-lay-mose SUE-mack-ose) – was fought against a resurgent Athens from 357 to 355 BCE by Rhodes, Cos, and Chios, which had formerly been partners of Athens, a situation somewhat parallel to the most famous war of this name fought in Italy between 91 and 87 BCE sometimes known for the name of its participants as the Marsic War. For 10 points name this war of which the most famous saw twelve tribes of Italic peoples rebel against Rome in spite of treaties which made the "Allies", hence the name of the conflict.

ANS: Social War

23. The narrator is, in a sense, jealous of the men for whom work comes with more difficulty than the ease with which it comes to himself, being possessed of talent that allows him to paint "without sketches or studies", although while the work of the other men "drop groundward, but themselves, I know, / Reach many a time a heaven that's shut to me". Why it is he will be denied heaven may involve the gold which he mentions as having embezzled from Francis I with which he built his house in Fiesole, all done for the love of his wife and model whom he needs even though she kept him from being the next Rafael and who, in the end of the piece, goes off to meet "a cousin". A portrait of a man called "the Flawless Painter" more because of the perfection of his works than of his character, for 10 points name this poem of the artist of the *Madonna iof the Harpies* written by Robert Browning.

ANS: "Andrea del Sarto"

24. Despite a repeated almost subliminal chorus of "sexy sexy sexy", the principal performer in this piece suggests his vocal delivery sounds like he is performing autofellatio, a trick he claimed to have learned from Eddie Murphy, and evinces some of the mental instability of his real life by screaming to the girls "sing it like that", by moaning in the background "I don't wanna be here", and by demanding that someone "best help me solve my problem". Dedicating the piece to "all the pretty girls of the world, and all the ugly ones too", it is presumably one of these whom he disbelieves is carrying his child, whom he tries to dissuade from attempting to leave him by suggesting that for anyone else she will suffer a lack of vaginal lubrication, and whom he threatens to make look "bummy" if she refuses to comply with the request he has made in his "calm voice". A mostly insane rant over a dance beat, for 10 points name this song in which the title commodity is promised to be returned by the chorus voiced by Kelis, the masterpiece of the late Ol' Dirty Bastard.

ANS: "Baby I got your money"

25. Although it was actually his student who worked out the theoretical reasons for the vibronic motions leading to the splitting of a triatomic linear molecule, because the split itself was first noticed by this man the influential chemist Gerhard Herzberg led to this man's name being attached to what was previously called the "Renner Effect". When it was discovered that beta particles and neutrinos emitted in beta decay could have parallel spins, this man worked with Georg Gamow to modify the Fermi selection rules, and he helped come up with rules governing the way a multimolecular surface adsorbs gas molecules with Stephen Brunauer and Paul Emmett, and he additionally explained that a non-linear molecule in a ground state will rid itself of geometrical symmetry if it is degenerate, an effect named from him and Hans Jahn. For 10 points name this scientist, who would later claim that Stanislaw Ulam contributed very little to the development of the hydrogen bomb of which he is usually considered the father.

ANS: Edward Teller

BONUSES:

1. A sequel of sorts would later be written in the form of *King Hedley II*, which features the son of the disturbed Jamaican King Hedley and the youthful tantalizer Ruby. It opens with the characters convening after the death of a blues singer and cuts to a flashback of when he was alive, trying to win back the hand of Vera which he had lost when he went to Chicago to record his hit record. For 10 points each
  - (10) The title instruments represent each of the characters in which play by August Wilson?  
ANS: Seven Guitars
  - (10) Like most of Wilson's plays, *Seven Guitars* is set in which American city?  
ANS: Pittsburgh
  - (10) Identify the blues singer in question, whose unsolved murder was actually committed by Hedley.  
ANS: Floyd "Schoolboy" Barton (accept either name)
2. Identify the following about the causes of the disorder called Huntingdon's Disease, 10 points each.
  - (10) A gene of chromosome 4 gives rise to a cytoplasmic protein called huntingtin, whose mutated form causes the disease. It is notable for its large amounts of this amino acid, abbreviated by the single letter Q. A non-essential amino acid present in wheat it is the only amino acid capable of readily crossing the barrier between blood and brain and is thought to account for about 80 percent of the amino nitrogen ( $-NH_2$ ) of brain tissue.  
ANS: glutamine
  - (10) The glutamine in the mutated huntingtin was shown to form one of these structures, a fullerene which is cylindrical rather than spherical and consisting of sp<sup>2</sup> bonds taking the shape of hollow fibers.  
ANS: microtubule
  - (10) The role of glutamine in huntingtin was discovered by this man, winner of the 1962 Nobel Prize for Physiology and Medicine with John Kendrew for his determination of the molecular structure of hemoglobin.  
ANS: Max Perutz
3. Chronicled almost in passing by the single verse in Mark 1.13, the Temptation of Jesus is much more fully narrated in Luke and Matthew, each of which mentioning the specific ways Jesus is tempted and the verses from Deuteronomy with which he dispenses these temptations. For 10 points each:
  - (10) Matthew and Luke both mention that Satan first attempts to have Jesus prove his divinity by breaking his fast through this action.  
ANS: turning stone into bread (accept reasonable equivalents)
  - (10) Next in Matthew (but slightly later in Luke) is Satan's attempts to have Jesus prove his divinity by whisking him to the highest point of the Temple and bidding him do this.  
ANS: jump off (accept reasonable equivalents)
  - (10) Finally, Satan attempts to dislodge Jesus from his holiness by taking him to a high mountain, where he shows him all the kingdoms of the earth which Jesus can rule if he will agree to do this.  
ANS: worship Satan (accept reasonable equivalents)
4. A fairly talented and capable officer in the western theater, he was denied the chance for promotion during the Civil War because of an incident during which he shot and killed his superior officer, William Nelson, due to an insult. For 10 points each:
  - (10) Name this commander who later successfully brought the Modoc War to a conclusion after routing Captain Jack at Dry Lake, a Union General perhaps best known for sharing the first and last name of the Confederate President.  
ANS: Jefferson C. Davis
  - (10) Jefferson C. Davis was present and played a crucial role at the "Hell's Half Acre" on the first day of this battle fought between New Year's Eve and January 3<sup>rd</sup>, 1863, at which Rosecrans defeated Braxton Bragg in Middle Tennessee near the Stones River.  
ANS: Murfreesboro
  - (10) Davis was a part of McCook's corps struggling to close the gap left open at this battle of September 18<sup>th</sup>-20<sup>th</sup>, 1863, and was promptly driven off the field by Longstreet; the battle would have turned into a complete rout had it not been for the intervention of George H. Thomas, henceforth the "Rock" of this place.  
ANS: Chickamauga

5. It ran into enormous problems during its composition over the libretto, which had to go through two rewrites and substantially alter the play on which it is based, such as cutting some licentious scenes and changing one of the main characters from the King François I of France to an unnamed Duke of Mantua. For 10 points each:

- (10) Name this opera drawn from Hugo's *The King Amuses Himself*, in which the title character is a hunchbacked jester trying to save his daughter from the attentions of the womanising duke.

ANS: **Rigoletto**

- (10) *Rigoletto* is a collaboration of the librettist Francesco Paiva and this composer.

ANS: Giuseppe **Verdi**

- (10) Certainly the most famous aria from *Rigoletto* and one of the most famous arias of all time is this one, sung by the Duke in Act III describing the flighty nature of feminine affections.

ANS: "La **Donna è Mobile**" (grudgingly accept "Women are fickle")

6. In light of the recent flap over what is "literature" and what is "trash" on the quizbowl boards, the interpid author considered an entry both in Benet's and the *Encyclopaedia Britannica* sufficient to justify a bonus on this American author. For 10 points each:

- (10) The works of this "American author noted for his use of violent images and graphic language ... that depict survival in a corrupt, blighted society" are mostly autobiographical and many involve his double Henry Chinaski. They include *Women*, *Ham on Rye*, and *Hollywood*, the last about the author's work on the film *Barfly*.

ANS: Charles **Bukowski**

- (10) Charles Bukowski's first novel was this one, describing the author's tenure as a mailman at the title location where parcels and letters are sent and received.

ANS: **Post Office**

- (10) Before working for the Post Office Bukowski wandered around, earning income by betting on horses and doing odd jobs, becoming the "Jack of All Trades" reflected in the Latinate title of this work which later became a film starring Matt Dillon and Lily Taylor.

ANS: **Factotum**

7. The first part of this collection, *The History of Jacob*, describes the hiding of that patriarch in Babylonia while evading Esau, while the other three deals with Jacob's sons and primarily with the son who is pushed down a well and sold to Egypt. For 10 points each:

- (10) Name this tetralogy, a cycle of novels dealing with Biblical themes by Thomas Mann.

ANS: **Joseph and His Brothers** (*Joseph und seine Brüder*)

- (10) A running theme throughout *Joseph and His Brothers* is that Abraham was the first to find the one true God, and the responsibility of his descendants to make that discovery more widespread. It therefore surprises Joseph that this pharaoh, whom Mann postulates to be the unnamed pharaoh from Genesis, also has a concept of a sole God.

ANS: **Akhenaton**

- (10) Mann seems to have been influenced in his discussion of the tenure in Egypt and its effect on Judaism by this text of Sigmund Freud, although Freud's work argues that Akenaton was not a contemporary of Joseph but of the lawgiver from the title.

ANS: **Moses and Monotheism**

8. So, *300* was a real hoot to watch even though it plays fairly fast and loose with the history. Answer some questions about the film and things depicted in it for the stated number of points.

- (5) There is no indication that this King of Persia was a tall, bald, pierced Argentinian, and missing is his famous temper tantrum before the building of the bridge of boats where he lashed the sea with chains in 480 BCE.

ANS: **Xerxes I**

- (5) More reasonably depicted is this Spartan king who died at Thermopylae.

ANS: **Leonidas**

- (10) Almost everything about this Malian traitor, who was certainly not a physically deformed Laconian desiring only to serve in the phalanx but was simply an opportunist who made some cash by selling the mountain path to the Persians, was invented.

ANS: **Ephialtes**

- (10) Completely absent from the film was this naval battle in which the Athenian fleet attempted to aid the Spartans holding the pass by robbing the Persian army of sea-borne supplies at the same time as Thermopylae.

ANS: **Artemisium**



9. Identify the works of popular historian Barbara Tuchman from clues, 10 points each.
- (10) Tuchman's 1966 *The Proud Tower*, a survey of the state of the world between 1890 to 1914, and her earlier *Zimmerman Telegram* deftly frame this work, about the events leading up to and the first major engagements of the First World War.  
ANS: *The Guns of August*
- (10) *The Guns of August* won Tuchman her first Pulitzer prize. Her second came for her biography of this General and his experience in China as Chief-of-Staff to Chiang Kai-Shek. Name this commander, who was very fond of his nickname "Vinegar Joe".  
ANS: Joseph Stilwell
- (10) Something a departure from her earlier work, this multi-themed work focused on military and political disasters and other failures which may be described as this noun from the title, which Tuchman are defined as the pursuit of policy contrary to self-interest, recognized as such at the time, pursued in spite of an alternative, in situations where policy is not made by one lone idiot but by a committee.  
ANS: *The March of Folly*
10. First proposed by Georg Cantor, the continuum hypothesis states that there is no set whose size is strictly between that of the integers and that of the real numbers. Answer the following questions about this concept, 10 points each.
- (10) Cantor also expressed the continuum hypothesis using this character, which he employed to represent the cardinality of infinite sets. Identify this letter, the first of the Hebrew alphabet.  
ANS: aleph
- (10) Cantor's many endeavors to prove the continuum hypothesis were unsuccessful, and thus in 1900 it was placed at the very top of the famous list of twenty-three unsolved problems put forth by this man.  
ANS: David Hilbert
- (10) Kurt Gödel showed in 1940 that the continuum hypothesis cannot be disproved by means of the Zermelo-Fraenkel system even if this rule is adopted. Discovered by Ernst Zermelo, it states that given any set of mutually disjoint non-empty sets, there exists at least one set that contains exactly one element in common with each of the non-empty sets.  
ANS: axiom of choice
11. In 2002 a former physician named Patrick Chavis was killed a driveby shooting in Los Angeles, leading various news reports to recall his earlier brush with fame as one of the sixteen men admitted to the UC-Davis medical school in a spot especially reserved for members of his race. For 10 points each:
- (10) While Chavis got in, this man, who was white and who had better grades and test scores, was rejected, leading him to sue the Board Of Regents in 1974 claiming discrimination.  
ANS: Allan Bakke
- (10) The majority opinion in the *Bakke* case was written by this man, who held that race may play a role in selection but that specific quotas were to be prohibited.  
ANS: Lewis Powell
- (10) Powell's ruling was challenged in two cases in 2003, one involving a law school reject who challenged preference given to those of with similar credentials but were from minorities, the other by two Undergraduate rejects who challenged weight given to race in the points system used to determine admission, both at this school.  
ANS: University of Michigan
12. Identify the painter from works, 30-20-10.
- (30) *Stream in a Ravine, The Source of the Loue, The Bathers*
- (20) *Interior of My Studio, A Real Allegory Summing Up Seven Years of My Life as An Artist* (frequently called *The Artist's Studio*)
- (10) *The Stone Breakers, Burial at Ornans*  
ANS: Gustave Courbet
13. At ACF Nationals recently the author of this packet got an interrupt because of a poorly worded leadin about this mythological figure; the question eventually reveals that it was the canine guardian of the entrance of Hel who is slain by Tyr at Ragnarok. For 10 points each:
- (10) Name this giant dog.  
ANS: Garm

- (10) The leadin of the question began by stating that Garm lived near a giant in the form of an eagle in a cave called Gniphell, which is near the entrance of Hel under the third root of this world tree.

ANS: Yggdrasil

- (10) Since the leadin was therefore asking for a creature “living near the roots of Yggdrasil”, the packet author immediately buzzed in with the name of this Norse dragon which lived under and gnawed on the roots of Yggdrasil. He proceeded to have five points deducted from his score. Damn it!

ANS: Nidhogg

14. Since 1999 an initiative has been underway to name a New Seven Wonders of the World, and of the twenty-one finalists several can be classified as buildings and thus works of architecture. Name some of these, 10 points each.

- (10) The design for this performance hall helped win architect Jorn Utzon the Pritzker Prize in 2003.

ANS: Sydney Opera House

- (10) Serving for nine years a huge billboard for the Citroen automobile company and as a radio tower during the First World War, this structure is synonymous with Paris.

ANS: Eiffel Tower

- (10) Planned by a set designer named Christian Jank, this castle was built on the order of Ludwig II to glorify the works of Wagner and is filled with swan-images, hence the name of the structure. It is the inspiration for the castle at Disneyland.

ANS: Neuschwanstein (get it, “neu schwan stein”; “New Swan Castle”)

15. Identify the following some ancient mathematic theories, 10 points each.

- (10) By this process, the volume of an irregular shape is approximated by using the volumes of a number of known shapes which when combined come reasonable close to the volume of the irregular shape in question.

ANS: Method of Exhaustion

- (10) The Method of Exhaustion is used by Archimedes to solve a number of problems in his *On the Sphere and Cylinder*, where he dutifully attributes the Method’s discovery to this astronomer, mathematician, and scientist, also the namesake of a Kampyle found by the equation “a squared times x to the fourth equals b to the fourth quantity x squared plus y squared” [  $a^2x^4 = b^4(x^2 + y^2)$  ].

ANS: Eudoxus

- (10) Eudoxus is also quoted by Euclid’s *Elements* in his theories on how to compare lengths generated by these kinds of numbers, theories later adopted by Dedekind. These numbers were discovered by Hippasus, a member of the Pythagorean school who was according to one legend drowned when he showed that the square root of two is infinitely long and non-repeating.

ANS: Irrational numbers

16. A prevalent theme in Kenzaburo Oe’s work is the birth of his brain-damaged son, which he addresses in some of his most famous works. For 10 points each:

- (10) Perhaps Oe’s most famous work, it deals with “Bird”, a protagonist whose own son is born with the same damage, and his decision on whether or not to starve his son to death; in the end he does not and accepts his responsibilities as an adult.

ANS: A Personal Matter (*Kojinteki na taiken*)

- (10) On the other hand, in this work a half-blind anonymous protagonist spends time with D, a composer who did let his son starve and now believes himself to be haunted by his ghost, the title entity.

ANS: Aghwee The Sky Monster (*Sora no kaibutsu Aguii*)

- (10) In this work a writer with a brain-damaged son retreats to a village in Shikoku where his brother arranges acts of defiance against a local merchant before committing suicide.

ANS: Silent Cry (accept *Football in the First Year of Man'en*; *Man'en Gannen no Futtoboru*)

17. In 1957 an obviously bored Senate found time to elect five Senators into something of a Senatorial Hall of Fame. For 10 points each:

- (10) The five men logically included these three great Senators from the 1850s. Name this “triumvirate”, including a former Vice President from South Carolina, a former Secretary of State from Massachusetts, and the “Great Compromiser” from Kentucky.

ANS: John C. Calhoun, Daniel Webster, Henry Clay

- (10) One of the men on the committee to create this “Famous Five” was this man, who included in it not only Daniel Webster but also Robert Taft, both men he had allegedly written about in his *Profiles in Courage*.



ANS: John Fitzgerald Kennedy, Sr. (accept either "JFK Sr.", "John Kennedy, Sr.", or "J. Kennedy, Sr." but prompt until answer distinguishing John from Rober and father from son is reached)

- (10) In addition to Calhoun, Webster, Clay, and Taft, the fifth member was this Wisconsin senator, notable for his opposition to World War I, and for running as Progressive Party candidate for President in 1924.

ANS: Robert M. LaFollette

18. It is produced as a by-product of the Downs process designed to isolate metallic sodium, but for commercial use its is now usually obtained by the Castner-Kellner process or some other forms of electrolysis of saltwater. For 10 points each:

- (10) Name this element used in purification and bleaching and in gaseous form as an anti-personnel weapon, atoming number 17.

ANS: Chlorine

- (10) Chlorine can also be produced by reacting so-called muriatic acid or HCl with manganese dioxide and sulfuric acid, which is the way this German chemist first discovered and isolated the element, although it would be named by Humphrey Davy.

ANS: Carl Wilhelm Scheele

- (10) Chlorine was once also produced commercially by the Deacon process invented to keep airborne HCl from destroying the environment around plants using the Leblanc process to obtain this compound useful in textile and glassmaking and which is now usually obtained by the Solvay process.

ANS: Sodium Carbonate (accept Soda ash)

19. For much of the period between 1200 and 1850 much of this river was blocked by the so-called "Great Raft", a 160-mile long logjam which made it impossible to be used for commerce. For 10 points each:

- (10) Name this river, a colorfully-named tributary of the Mississippi which forms much of the border between Texas and Oklahoma.

ANS: Red River

- (10) The man responsible for clearing much of the "Great Raft" from the Red River was this steamboat captain, and in his honor the third largest city in Louisiana behind New Orleans and Baton Rouge, a city dependent on the Red River, was named.

ANS: Henry Shreve

- (10) The breakup of the Great Raft is held by many geologists to be responsible for this body of water, the largest and indeed only natural lake in Texas.

ANS: Lake Caddo

20. A contest announced at the South by Southwest film festival allowed for fans to compete to make one of the "trailers" accompanying this film, with the result that "Hobo with a Shotgun" was shown to Canadian audiences alongside "Thanksgiving", "Don't", and "Werewolf Women of the S.S.". For 10 points each:

- (10) All of these were shown before and between the segments of what recent film featuring two short horror films in the style of 70's exploitation cinema?

ANS: Grindhouse

- (10) In addition to the abovementioned "trailers" is "Machete", directed by this man who directed one of the two parts of *Grindhouse* alongside Tarentino's *Death-Proof*.

ANS: Robert Rodriguez

- (10) Name the segment of *Grindhouse* directed by Rodriguez, which features Rose McGowan with a machine gun leg and, uh, other stuff, I guess.

ANS: Planet Terror