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TOSSUPS

1. The Supreme Court has decided that tailored use of this practice is permissible for achieving so-called "critical mass," although Sandra Day O'Connor wrote that this practice would no longer be necessary in 25 years. In 2003 the Supreme Court ruled against a point-based version of this practice in *Gratz v. Bollinger*. In June 2015 the court agreed to rehear the case (*) *Fisher v. Texas* challenging this practice. In 1978 quota-based versions of this practice were ruled unconstitutional in *Bakke v. Regents of the University of California*. For 10 points, name this practice of giving preference to historically disadvantaged racial minorities.

ANSWER: affirmative action in the college admissions process [accept positive discrimination; prompt on "reverse discrimination" or "discrimination"]

2. A leader criticized this religion's contradictions in his essay *Against the Galileans* during the 4th century. According to legend, one of this religion's major holidays was specifically scheduled to upstage a festival led by the Sol Invictus cult. Julian the Apostate attempted to roll back the spread of this religion, whose members were systematically persecuted by (*) Diocletian ("DIE"-oh-klee-shun). It was granted toleration in the Edict of Milan by Constantine the Great, who became the first Roman emperor to convert to it. For 10 points, Pontius Pilate crucified the founder of what religion?

ANSWER: Christianity [accept specific forms of Christianity]

3. The ball can be made to go over someone's head in the American twist variety of this action, which Bill Tilden perfected. This action is generally performed in a platform or pinpoint stance. Jack Kramer pioneered an aggressive strategy which paired this action with a follow-up volley. A rule change in 1961 allowed a (*) jump to be performed along with this action. Winning a game in which an opponent performs this action is called a break. Lets and foot faults can nullify this action, which is called an ace if the returner fails to put his racket on it. Ivo Karlovic and Milos Raonic heavily rely on, for 10 points, what opening shot in tennis?

ANSWER: tennis serve [or service motion; or obvious equivalents]

4. Many of these people adopted Western values during a period of "enlightenment" known as the Haskalah. They're not serfs or slaves, but France and many German states "emancipated" these people during the Napoleonic Era. Catherine the Great forced these people to live in towns known as shtetls (SHTET-"tells") within the Pale of Settlement after she partitioned Poland. In the 18th century, many of them joined Baal Shem Tov's conservative (*) Hasidic movement. In the cities of Western Europe, these people usually lived within ghettos. For 10 points, name this religious group that was targeted in mass-killings known as pogroms.

ANSWER: Jews [or word forms such as Jewish people; accept more specific answers such as Ashkenazic Jews or German Jews; accept Yiddish-speaking people before mentioned]

5. This organelle is targeted by the antibiotic chloramphenicol (KHLOR-am-fen-eh-cohl), which binds to a subunit not found in eukaryotes. This organelle accepts fMet (f - Met) in the presence of elongation factor EF-Tu (E F TWO) after binding the Shine-Dalgarno ("SHE"-nay dal-GAR-no) sequence. This organelle is created in the nucleolus and is measured in Svedberg units of sedimentation. They contain A sites named for the (*) aminoacylated molecules that they bind, which move through the P and E sites as they transfer their peptides. This organelle can either be found in the cytoplasm or attached to the endoplasmic reticulum. For 10 points, name this organelle, the site of mRNA translation.

ANSWER: ribosomes

6. Mark Twain wrote that, whenever he read this novel, he wanted to "dig up" the author's skeleton and beat its "skull" with its "shin bone." During a ball in this novel, a character offends the guests through his inability to make small talk and his refusal to dance. This novel opens by noting a "truth (*)" universally acknowledged, that a single, "rich man must want a wife. In this novel, the tenant of Netherfield Park rescues Lydia by paying George Wickham to marry her, and his best friend Mr. Bingley eventually marries Jane. For 10 points, what novel in which Mr. Darcy and Elizabeth Bennet overcome bad first impressions was written by Jane Austen?

ANSWER: Pride and Prejudice

7. This artist adapted his teacher's *Christ Giving the Keys to Saint Peter* for Mary and Joseph's marriage. In one of his works, three flying putti (poo-tee) aim at a woman being pulled by two snarling dolphins while fleeing Polyphemus. His evolution beyond Perugino's teachings is shown in his *The Triumph of Galatea*. His window-framing fresco *The Parnassus* and a putti-filled *Disputation* flank another fresco in the (*) Stanza della Segnatura for Pope Julius II. In that painting by this man, coffered barrel vaults frame two robed men, who are pointing up and down among Greek scholars such as Pythagoras. For 10 points, name this Renaissance painter of *The School of Athens*.

ANSWER: Raphael [or Raphael Sanzio; or Raffaello Sanzio da Urbino]

8. Balinese traditions divide this system into *subha* and *asubha*, or good and bad, forms. Buddhism identifies *vipaka* as the result of this system, which arises primarily through *avijja* (ah-VEE-ja), or ignorance. The potency of this system is measured partly by whether it takes effect in the (*) current life or subsequent lives. Only people who have achieved *moksha* or *nirvana* and therefore escaped rebirth can transcend this system, and in Hinduism, its namesake type of yoga teaches spiritual detachment from consequences. For 10 points, name this principle of many South Asian religions that links the fortunes of an individual with the goodness or badness of his deeds.

ANSWER: karma [or kamma]

9. In order to calculate the universal gravitational constant, Henry Cavendish used a torsion balance to measure this quantity. This quantity is equal to the cross product of electric dipole moment and electric field, and is zero when applied through the center of mass. The precession of a gyroscope is induced by this quantity, which is the time derivative of the (*) angular momentum. This quantity can be calculated as either moment of inertia times angular acceleration, or as the cross product of lever arm distance and force. For 10 points, name this rotational analogue of force, symbolized tau.

ANSWER: torque [prompt on "tau" until mentioned]

10. During this war, the city of Petropavlovsk (PEH-truh-PAHV-lovsk) was unsuccessfully besieged in Kamchatka. The Victoria Cross was originally introduced to honor British veterans of this war. It technically began with a dispute over who had the right to protect Christians in the Ottoman Empire. During an invasion in this war, a "thin red line" of British troops fought off a larger Russian force at the Battle of (*) Balaclava (bah-luh-KLAH-vuh), which occurred at the same time as the year-long siege of Sevastopol. For 10 points, name this major 1850s war in which several European countries fought on a namesake peninsula in southern Ukraine.

ANSWER: Crimean War

HALFTIME

11. This man cleans up a polluted river by dancing atop the head of the poisonous serpent Kaliya. As an infant, this hero's father carries him across that same river to escape his evil uncle Kamsa. As a youth, he opens his mouth and shows the entire universe to his foster mother Yashoda. This man often plays his flute around milkmaids such as Radha. This hero lends his entire army to Duryodhana during the (*) Kurukshetra War, at whose start this charioteer recites the *Bhagavad Gita* to his friend Arjuna. For 10 points, name this blue-skinned eighth avatar of Vishnu who is evoked in a mantra that begins "Hare" (HAH-ray).

ANSWER: Krishna [prompt on "Vishnu" before "avatar" is read]

12. This author says to "Leave not the bridegroom quiet... nor the peaceful farmer any peace" in a war-inspired poem which commands "blow! bugles! blow!" and "Beat! beat! drums!" This author comes up with the answer "the unshaven hair of graves" in response to the query "*What is the grass?*" in a long first-person poem in which he says "Do I contradict myself? / Very well then I contradict myself. ...I contain multitudes." In that poem, this author (*) "celebrate[s]" himself and "sing[s]" himself and declares "I sound my barbaric yawp over the roofs of the world." For 10 points, name this author of "Song of Myself" and the collection *Leaves of Grass*.

ANSWER: Walt Whitman [or Walter Whitman]

13. In this state's Battle of Baxter Springs, Confederate bushwhackers led by William Quantrill murdered over a hundred Union soldiers near a local outpost. During the 1850s, this state was invaded by the Border Ruffians, who supported its pro-slavery government in the town of Lecompton. In this non-Virginian state, John Brown murdered several pro-slavery civilians in the (*) Pottawatomie (POT-ah-WAH-tuh-mee) Massacre. Charles Sumner decried "The Crime Against" this state in 1856. For 10 points, name this Great Plains state that was said to be "Bleeding" in the 1850s.

ANSWER: Kansas

14. This quantity can be calculated as the absolute value of the scalar triple product of three vectors, which can be used to determine whether they're coplanar. This quantity is finite for the solid created by rotating the function one over x about the x-axis, called Gabriel's horn, unlike its infinite surface area. This quantity can be determined for a convex object by taking the integral of a series of concentric (*) cylinders with respect to radius. This quantity for a pyramid is 1/3 that of its enclosing prism, and for a sphere it is 4/3 pi r cubed. For 10 points, name this quantity that represents the amount of space an object encloses.

ANSWER: volume [prompt on "capacity"]

15. At the beginning of this essay, the narrator notes that "the famous Salmanaazor" from Formosa had planted an idea into his friend's head. This essay asks that "other expedients" like honesty, loyalty, and prudence not be mentioned, although these "expedients" probably reflect the author's true thoughts. The narrator of this essay concludes it by stating that he has no "personal interest" in his cause because his wife is "past child-bearing". This essay was written in order to mock the (*) British attitudes and policies concerning poor Irish families. For 10 points, name this essay that satirically proposes the sale and consumption of Irish babies, written by Jonathan Swift.

ANSWER: A Modest Proposal for Preventing the Children of Poor People From Being a Burthen to Their Parents or Country, and for Making Them Beneficial to the Publick

16. This composer depicted a lonely man passing by a beckoning linden tree and witnessing a destitute hurdy-gurdy man in his song cycle *Winterreise*. A father rushes home on horseback as his son's life is whisked away by the title spirit in this composer's "Der (*) Erlkönig." ("dare" "EARL"-kur-nig) This composer called for a piano, a violin, a viola, a cello, and a double bass in a chamber piece that quotes his setting of the song "Die Forelle." (dee foh-REH-luh) This composer of the *Trout* Quintet died after finishing only the first two movements of his Symphony No. 8. For 10 points, name this composer of the *Unfinished* Symphony.

ANSWER: Franz Schubert [or Franz Peter Schubert]

17. This object's spectrum contains a green spectral line that was initially attributed to a new element but was actually doubly ionized iron. The Homestake experiment discovered flavor oscillation by observing this object's namesake neutrino problem. This body is observed by the SOHO (so-ho) satellite, which is able to observe the transit of a family of comets that "graze" on and occasionally (*) collide with it. This body's strong magnetic field creates dark depressions in the photosphere, its namesake "spots". The distance between it and the Earth is defined as the astronomical unit. For 10 points, name this yellow star found in the center of the solar system.

ANSWER: the Sun [or Sol; accept descriptive answers mentioning the star in our solar system before mentioned; prompt on "corona"]

18. This novel's narrator warns that "There is a wisdom that is woe; but there is a woe that is madness." This novel's second paragraph points out the "insular city of the Manhattoes," and early on in this novel, the narrator listens to a sermon delivered by Father Mapple about Jonah. The title character of this novel only appears in the last three chapters of this novel, during which a central character cries "From (*) Hell's heart I stab at thee!" The narrator of this novel ignores the warnings of Elijah and signs up to work aboard the *Pequod* with Queequeg. For 10 points, name this novel narrated by Ishmael about Captain Ahab's vendetta against the title whale, written by Herman Melville.

ANSWER: *Moby-Dick*

19. In a treatise on this activity, Fabrizio Colonna tells Cosimo Rucellai that "he who practices" this activity "will never be judged to be good." Another treatise describes this activity as a "continuation of politics by other means." A third treatise on this subject emphasizes quick adaptation to new situations and notes that no nation profits from long (*) engagements in this activity. That work describes five factors and nine terrains that decide its outcome. Carl von Clausewitz theorized on this activity, which was also discussed by a general of the state of Wu during China's Warring States Period. For 10 points, Sun Tzu studied the "art of" what activity?

ANSWER: warfare [or krieg; or guerra; or bingfa; or zhanzheng; prompt on similar answers such as "fighting," "battle," "combat," etc.]

20. In this modern-day country, communal farms known as moshavim were established with European financial support by people of the Aliyah (AH-lee-uh) movements . This country has access to the Red Sea via its port of Eilat (ay-LAH-T). The city of Beersheba is located near many socialist agricultural communes known as (*) kibbutzim (keh-BOOT-zim) in this country's Negev Desert. In this country, the Mount Carmel mountain range slopes into the sea at its port city of Haifa. In the early 20th century, this country was settled by the Zionist movement. For 10 points, name this Jewish state in the Middle East.

ANSWER: Israel [or State of Israel or Medinat Yisra'el]

END OF REGULATION, PROCEED ONLY IF TIED

21. People of this nationality joined the Dead Rabbits gang, which fought the nativist Bowery Boys. Many immigrants of this nationality entered the U.S. via so-called "coffin ships." The 1863 draft riots in New York were primarily instigated by workers of this nationality, who supported the Tammany Hall political machine. Discriminatory job notices in the 19th century legendarily declared that this nationality (*) "need not apply." The Kennedy family was descended from immigrants of this nationality. For 10 points, name this nationality, many of whom came to America due to a potato famine.

ANSWER: Irish-American [accept word forms such as Ireland; accept Scots-Irish; do not accept "Scottish" or "British"]

22. This quantity is multiplied by a displacement vector inside a line integral for the expression of magnetic field. The density of this quantity is given by the product of conductivity and the electric field. The Biot-Savart law gives the magnetic field for a system as proportional to this quantity. The energy radiated by a resistor is proportional to the magnitude of this quantity squared. The direction of the primary (*) charge carrier determines the direction of this quantity, whose antiderivative with respect to time is charge. For 10 points, name this quantity measured in amperes, the rate of the flow of electric charge.

ANSWER: electric current

BONUSES

1. The elements of these collections are encoded in Unicode or ASCII (**ass-kee**), and joining these objects together is called concatenation (**con-"CAT"-uh-"nation"**). For 10 points each:

[10] Name these sequences of characters. They can be formatted to contain different variables using percent signs and printf (**"print F"**) in C.

ANSWER: strings

[10] Escape sequences in C start with this symbol; for example, this symbol followed by a '0' denotes the null character, while this symbol followed by an 'n' denotes a newline. This symbol is also used to escape quotation marks and itself within strings.

ANSWER: backslash [or reverse slash; prompt on "slash"; do not accept "forward slash"; do not accept "stroke"]

[10] This special character is used in regular expressions to denote zero or more of the preceding string. This character can also be used to specify a pointer when it follows the name of a variable.

ANSWER: asterisk [or star]

2. This man was originally a Phoenician fertility god, and the flower anemone (**uh-nem-o-nee**) sprang from his blood. For 10 points each:

[10] Name this handsome youth who was killed by a wild boar sent by either Artemis or Ares (**"AIR"-eez**). He is sometimes considered the Greek god of beauty.

ANSWER: Adonis [or Adon]

[10] This princess of Cyprus tricked her father Cinyras (**kin-"EYE"-rus**) into sleeping with her. She was then transformed into a tree and gave birth to Adonis.

ANSWER: Myrrha [or Smyrna]

[10] Adonis stayed with Persephone (**pur-SEH-foh-nee**) for a third of the year and lived with this goddess for the rest. This Greek goddess of love, who arose from the foam of the ocean, is sometimes considered the daughter of Dione and Zeus.

ANSWER: Aphrodite (af-roh-"DIE"-tee) [accept Venus]

3. For 10 points each, name these famous 20th-century Americans who were born as Quakers:

[10] This Quaker mining engineer and self-made millionaire served as president during the 1929 stock market crash that began the Great Depression.

ANSWER: Herbert Hoover

[10] This journalist, who was born to Quaker parents in rural Washington, criticized Joseph McCarthy on the 1950s CBS news show *See It Now*. He usually ended his broadcasts with the phrase "Good night, and good luck."

ANSWER: Edward R. Murrow [or Egbert Roscoe Murrow]

[10] Buffalo Bill's Wild West Show brought fame to this early female sharpshooter, who was born to Quaker parents in rural Ohio.

ANSWER: Annie Oakley [or Phoebe Ann Mosey]

4. Answer the following about animals in the Bible, for 10 points each.

[10] As punishment for his refusal to worship Darius I, this prophet is thrown into a den of ravenous lions, but miraculously escapes unharmed.

ANSWER: Daniel [or Daniyyel]

[10] A donkey chastises his rider Balaam after being given the ability to speak in this book of the Bible that begins with a census of the Israelites.

ANSWER: Book of Numbers [or Bemidbar]

[10] On the road to Timnah, this Biblical judge kills a lion and later discovers a swarm of bees in its carcass. Later, he uses a donkey's jawbone to massacre an enemy army.

ANSWER: Samson [or Shimshon; or Shamshun]

5. This collection includes two stories attributed to the Dutch historian Diedrich Knickerbocker. For 10 points each:
[10] Name this collection that contains a story in which Ichabod Crane is scared out of Sleepy Hollow by a mysterious headless horseman.

ANSWER: The **Sketch Book** of Geoffrey Crayon

[10] This early American author published "The Legend of the Sleepy Hollow" in his *Sketch Book*.

ANSWER: Washington Irving

[10] This other tale in *The Sketch Book* tells the story of a man who plays nine-pins in the Catskills with silent, bearded men before drinking moonshine and sleeping through the American Revolution.

ANSWER: "Rip van Winkle"

6. This Ancient Greek philosopher guessed that all earthly objects naturally come to a stop while all heavenly objects naturally tend to move. For 10 points each:

[10] Name this author of *Physics* and *Metaphysics*. He was the student of Plato and the teacher of Alexander the Great.

ANSWER: Aristotle [or Aristoteles]

[10] In this book, Aristotle discusses how to achieve *eudaimonia*, or happiness. This book on morality is named after Aristotle's son.

ANSWER: Nicomachean Ethics [or Ethika Nikomacheia]

[10] In the *Nicomachean Ethics*, Aristotle formulates this principle, which states that every virtue is a moderation between the two extremes of deficiency and excess.

ANSWER: golden mean [or doctrine of the mean; or aurea mediocritas; or to chryso meso; prompt on "mean" or "meden agan"]

7. This stage action is undertaken multiple times by the Grandma in Edward Albee's play *The Sandbox*. For 10 points each:

[10] Name this action in which actors directly speak to the audience, essentially acknowledging that there are people watching.

ANSWER: breaking the fourth wall

[10] Similarly to breaking the fourth wall, this technique involves a short phrase said to the audience to express inner thoughts or provide humour. One example of this device from *Hamlet* is the line "A little more than kin, and less than kind."

ANSWER: aside

[10] This term refers to a conventionally long speech spoken by one character, usually to reveal their inner thought processes. An example of this type of speech is Hamlet's "To be or not to be".

ANSWER: monologue [or soliloquy]

8. The kings of this country repeatedly invaded Italy from the death of Ferdinand I of Naples in 1494 until the Peace of Cateau-Cambrésis (**kaa-TOH kaam-bray-see**) in 1559. For 10 points each:

[10] Name this country that was sequentially ruled by the Houses of Capet (**cah-"PAY"**), Valois (**val-WAH**), and Bourbon, including many kings named Louis (**LOO-ee**).

ANSWER: Kingdom of France

[10] In the latter stages of the so-called Italian Wars, Francis I of France mainly fought this Holy Roman Emperor, who also co-ruled Spain with his mother Joanna the Mad.

ANSWER: Charles V ("the 5th") [or Karl V; or Carolus V; or Charles I of Spain; or Carlos I de España; prompt on "Charles" or equivalents in any language]

[10] The Italian Wars momentarily drew to a halt when Francis I was captured by the armies of Charles V at this 1525 battle, after which Francis was forced to temporarily give up his claims to Italy.

ANSWER: Battle of Pavia

9. This modern-day country's Ile Sainte-Marie may have been home to the utopian pirate republic of Libertalia during the 17th and 18th centuries. For 10 points each:

[10] Name this island country off the eastern coast of Africa, which is home to a large endemic lemur population.

ANSWER: Madagascar [or Republic of Madagascar or Republique de Madagascar or Repoblikan'i Madagasikara]

[10] Another pirate haven of the 18th century was Tortuga Island, which was situated just off the northwest coast of this larger Caribbean island. This island is now home to the Dominican Republic and Haiti.

ANSWER: Hispaniola [or Española]

[10] Perhaps the most infamous Caribbean pirate stronghold of the 17th century was this Jamaican port city, which partly sunk under the sea after a 1692 earthquake.

ANSWER: Port Royal

10. This emperor spent most of the last years of his life fighting the Marcomannic Wars in Germany. For 10 points each:

[10] Name this last of the "Five Good Emperors," who wrote the Stoic work *Meditations*.

ANSWER: Marcus Aurelius [Antoninus Augustus] [prompt on "Marcus" or "Aurelius"]

[10] Marcus Aurelius was succeeded by this man, his incompetent son. This man's reign ended when he was strangled to death by the wrestler Narcissus.

ANSWER: Commodus [or Marcus Aurelius Commodus Antoninus Augustus]

[10] As emperor, Commodus frequently liked to participate in staged combat versus these Roman show-fighters, who often performed in the Coliseum.

ANSWER: gladiators

11. This artist's late self portraits include one "as Zeuxis Laughing" and another in which he stands between two giant circles. For 10 points each:

[10] Name this artist, who may have depicted Isaac and Rebekah in his double portrait of a man and the title figure clothed in red, *The Jewish Bride*.

ANSWER: Rembrandt Harmenszoon van Rijn

[10] In this best-known Rembrandt painting, which may have been commissioned for the 1638 visit of Marie de Medici, the dark background contrasts heavily with the title militia and an odd, yellow-clothed girl holding a chicken.

ANSWER: *The* Night Watch [or *De* Nachtwacht; or *The Shooting* [or *Militia* or other variants] Company of Captain Frans Banning Cocq and Lieutenant Willem van Ruytenburch]

[10] Marie de Medici was prominently depicted in a cycle by this Flemish Baroque painter, whose voluptuous nudes were inspired by his second wife Hélène Fourment.

ANSWER: Peter Paul Rubens

12. These structures were discovered in Ernest Rutherford's gold foil experiment. For 10 points each:

[10] Name these collections of protons and neutrons found at the center of atoms.

ANSWER: atomic nucleus

[10] This quantity is paradoxically lower for the nucleus than for its separated constituents. The difference in those two values of this quantity equals the binding energy and constitutes its namesake "defect".

ANSWER: mass

[10] This element's 56 isotope has the lowest mass per nucleon, a direct consequence of its binding energy, the highest of any nucleus.

ANSWER: iron-56 [or Fe]

13. This composer compiled concertos for one, two, and four solo violinists in the collection *L'estro Armonico*. For 10 points each:

[10] Name this Baroque composer of a D major setting of the Gloria and the collection *The Contest Between Harmony and Invention*, whose first four pieces are paired with sonnets.

ANSWER: Antonio **Vivaldi** [or Antonio Lucio **Vivaldi**]

[10] Those four Vivaldi pieces comprise this collection of violin concertos about the title divisions of the year.

ANSWER: *The **Four Seasons*** [or *Le **quattro stagioni***]

[10] Vivaldi wrote many concertos for this instrument, in which pressing a namesake left thumb key is one way to produce a B-flat. Frederick the Great played this instrument, which uses the gizmo key to reach a high C.

ANSWER: **flute** [or **transverse flute**; or **Western concert flute**]

14. For 10 points each, answer the following about *The Sun*, a popular conservative tabloid in Britain.

[10] In the 1980s, *The Sun* received heavy criticism for its inaccurate coverage of the Hillsborough disaster, in which 96 people were crushed to death at one of these places.

ANSWER: **soccer** stadium or **football** stadium [accept similar answers mentioning the words **soccer** or **football**; prompt on "stadiums" or similar answers]

[10] *The Sun* began its swing towards conservatism in the 1960s when it was purchased by this Australian news mogul, who owns *The Wall Street Journal* in the U.S.

ANSWER: Rupert **Murdoch** (**MUR-"dock"**)

[10] Murdoch's holdings also include this conservative American news channel, whose TV hosts include Sean Hannity and Bill O'Reilly.

ANSWER: **Fox** News

15. *Batson v. Kentucky* held that jurors could not be struck from the pool based on solely on race, and *Taylor v. Louisiana* held similarly for gender distinctions. For 10 points each:

[10] The decisions in those two cases rested on this amendment. *Barker v. Wingo* established a four-prong test regarding the "speedy trial" clause of this amendment, holding that "justice delayed is justice denied."

ANSWER: **Sixth** Amendment

[10] These juries are empowered to hand down indictments after hearing the prosecution's case and determining probable cause. Examples of these juries have come under fire for not indicting the policemen Darren Wilson and Daniel Pantaleo.

ANSWER: **grand** juries

[10] In *Gideon v. Wainwright*, the Supreme Court ruled that states had to provide all needy criminal defendants with free representation from one of these people.

ANSWER: **lawyer** or **attorney** or **counsel** [accept more specific answers such as **public defenders** or **indigent counsel**]

16. These structures form in the basal layer of the skin and can come in arch and whorl types. For 10 points each:

[10] Name these uniquely identifying patterns that are commonly used in forensics.

ANSWER: **fingerprints**

[10] Fingerprints are formed from the impression of papillae in the outer boundary of this region. This layer of the skin forms the cutis along with a similarly named region directly above it.

ANSWER: **dermis** [do not accept "epidermis"]

[10] One can detect this class of compounds using ninhydrin, which turns fingerprints purple by forming an amide linkage. These compounds are defined by two functional groups, containing respectively a singly bonded nitrogen and a terminal hydroxyl.

ANSWER: **amino acids**

17. The Farm Security Administration hired the photographer Walker Evans to document the destitute conditions in Alabama during this period, in his book *Let Us Now Praise Famous Men*. For 10 points each:

[10] Name this long economic period in which photographers also documented western farmers suffering from the effects of the Dust Bowl.

ANSWER: **Great Depression**

[10] This Depression era photographer depicted Florence Owens Thompson cradling a baby in her *Migrant Mother*.

ANSWER: Dorothea **Lange** [or Dorothea Margareta **Nutzhorn**]

[10] Dorothea Lange later visited this location in the Owens Valley of the Sierra Nevada, taking photographs of scenes such as a high flying American flag and a man carrying his grandson.

ANSWER: **Manzanar** War Relocation Center

18. After stealing all the gas cartridges from the 256th Squadron's emergency life vests, this man leaves a note saying that what's good for his syndicate "is good for the country." For 10 points each:

[10] Name this Mayor of Palermo and Sicily, Caliph of Baghdad, and pagan god of corn who also serves as the mess officer in a U.S. Air Force base in Pianosa.

ANSWER: **Milo Minderbinder** [accept either underlined name]

[10] Milo Minderbinder appears in this non-chronological novel that satirizes government bureaucracy during World War II.

ANSWER: **Catch-22**

[10] This American author followed his novel *Catch-22* with the sequel *Closing Time*.

ANSWER: Joseph **Heller**

19. This protein possesses a unique triple-helix secondary structure, which follows a fixed pattern of amino acids to ensure stability. For 10 points each:

[10] Name this most common protein in the human body, which makes up connective tissue.

ANSWER: **collagen**

[10] This vitamin is needed to form collagen because of its role as a coenzyme during amino acid hydroxylation. Deficiency in this acid can cause gums to bleed, a disease commonly called scurvy.

ANSWER: vitamin **C** [accept **ascorbic acid** or **ascorbate**]

[10] Either this amino acid or a derivative of it is found every third residue in collagen because its unique structure allows the helix to bend sharply. This amino acid has a pyrrole ring side chain that merges with its amino group.

ANSWER: **proline** [accept hydroxy**proline**; prompt on "P"]

20. This character dates the bartender Pete in hopes of escaping her impoverished life but is dumped for Nellie, and eventually dies as a prostitute. For 10 points each:

[10] Name this "girl of the streets" from an 1893 Stephen Crane novel.

ANSWER: **Maggie** Johnson [prompt on "Johnson"; accept **Maggie**: *A Girl of the Streets*]

[10] Another literary Maggie is Maggie Tulliver, the protagonist of a novel by this pseudonymous female author of *The Mill on the Floss* and *Middlemarch*.

ANSWER: George **Eliot** [or Mary Ann **Evans**]

[10] In this play, Brick complains "Maggie, you're spoiling my liquor" shortly before Maggie tells him that she feels like she's caught in the title situation but can't jump off.

ANSWER: **Cat on a Hot Tin Roof** [by Tennessee Williams]

21. Laurie and Amy get married while they tour Europe in this novel due to the whims of Amy's aunt, who had also earlier suspected John Brooke of being interested in a girl only for her inheritance. For 10 points each:

[10] Name this novel published in two volumes written by the author of *Hospital Sketches*.

ANSWER: **Little Women**

[10] This author wrote about the four March sisters coming into their own in *Little Women*.

ANSWER: Louisa May **Alcott**

[10] On rainy days, the March sisters take part in this club. This literary club was inspired by real-life nineteenth century clubs that imitated a Charles Dickens novel about a group of men reporting their travels around England.

ANSWER: **Pickwick** Club [accept *The **Pickwick Papers***]