



1. Just before leaving this location, a story about the origin of certain rivers is told, involving a statue that is made of a gold head, silver chest, brass midsection, iron legs, and one clay foot, which stands on Mount Ida. The author of the *Trésor* is seen at this location, as is an advisor to Frederick II who was blinded for supposed treachery. Another person in this location is depicted as lying on his back in echo of the *Thebiad*. This location is where Pier della Vigna and Capaneus are encountered. Many former residents of the city of Cahors are found in this location, as is Bruno Lattini. A river of blood in this location contains men who are prevented from climbing out by arrows fired by centaurs. Access to this location is impeded by a pile of boulders, on top of which sits the Minotaur, who begins to bite himself and buck about, upon hearing the name of Theseus. Certain people here are changed into trees gnawed at by the Harpies in this location. For 10 points, name this circle of Hell in the *Inferno* where those guilty of blasphemy, usury, sodomy, suicide, and murder are found, located just above a circle with many "bolgia."

ANSWER: the seventh circle of Hell [or 7, etc.; prompt on Hell or Inferno]

019-13-64-02101

2. A scandal involving this party was revealed by Sheila Fraser and investigated by the Gomery Commission. A member of this party who was killed in a plane crash was Norman Rogers. This party promised to eliminate its country's Goods and Services Tax as well as to cancel the replacement of its country's Sea King helicopters; those promises were outlined in this party's Red Book. A Minister of Justice from this party won the Nobel Peace Prize for negotiating the end of the Suez Crisis while serving under Louis St. Laurent. A leader of this party exclaimed "Just Watch Me" while discussing his decision to use the War Measures Act to end a crisis that began with the kidnapping of James Cross, the October Crisis. For 10 points, name this political party to which Jean Chretien and Pierre Trudeau belonged.

ANSWER: Liberal Party of Canada

149-13-64-02102

3. One equation in this theory unusually has no scalable parameters and states that the third-order structure function of the velocity differences is equal to the product of negative four-fifths, energy flow, and integral length. That equation is only valid for the inertial subrange, as is another equation in this theory that was derived using dimensional analysis. That equation states that the one-dimensional energy spectrum very closely equals the product of the two-thirds power of energy flow and negative five-thirds power of wavenumber. This theory's creator also used it to derive the length and velocity scales at which viscosity dissipates the energy of its namesake phenomenon. For 10 points, identify this theory of a thorny phenomenon in fluid mechanics founded by a Russian scientist in a landmark 1941 paper.

ANSWER: Andrey Kolmogorov theory of turbulence [or word forms of "turbulence"; prompt on turbulence]

066-13-64-02103

4. The second movement of this symphony likely inspired Beethoven's use of trumpets and drums in the F major *Andante* section of his first symphony. *The Birth of a Performance* contains Bruno Walter's rehearsal and performance of this work. Its second movement is not marked *Poco adagio* as thought for over a century, but *Andante* and is an F major *siciliana* in 6/8 time. This work marks the first use of a slow introduction by its composer, who would use it again for his next work in the same genre, entitled "Prague". It was composed for Count Thun during a stopover on its composer's return from visiting his father-in-law in Salzburg. For 10 points, identify this Mozart symphony named for an Austrian city.

ANSWER: "**Linz**" symphony [or Wolfgang Amadeus **Mozart's Symphony** No. **36** in C major; or **K425**; prompt on Mozart's **Symphony in C** major]

066-13-64-02104

5. One philosopher with this surname concludes that, because moral judgments do not correspond to a previously held desire, they are either not beliefs or not able to motivate, and therefore cannot be both objective and practical. This surname is held by the Australian philosopher Michael, who wrote *The Moral Problem*, and by the coiner of the term "evolutionarily stable strategy" who wrote *The Evolutionary Theory of Games*, Maynard. Another philosopher with this surname noted that because love comes from a "habit of the imagination," it is difficult for a third party to sympathize with, but that most people hold the "social passions" in high esteem. That man with this name wrote about judging actions through the "impartial spectator" in the *Theory of Moral Sentiments*. For 10 points, give this surname of the philosopher who described the division of labor in a pin factory in *The Wealth of Nations*, Adam.

ANSWER: **Smith**

019-13-64-02105

6. This man, who was advised by Nyers, established a system of fixed, limited, and free prices with his New Economic Mechanism. He promised to protect his country's democratic and socialist system as one of his "Fifteen Points". This man lured his predecessor out of a Yugoslavian embassy by promising him safe passage. This leader of the "happiest barrack" practiced "goulash communism". The "bald murderer" of this man's country accused him of spying for Miklos Horthy. One of this man's catchphrases was "he is who not against us is with us". This man was succeeded by Karoly Grosz in 1988. For 10 points, name this Hungarian leader who came to power after the fall of Imre Nagy in 1956.

ANSWER: János **Kádár**

149-13-64-02106

7. David Allis and colleagues discovered an enzyme in this model organism that was homologous to the yeast protein Gcn5, thus giving the first direct evidence that histone modification of chromatin is a mechanism of transcriptional activation. The crystal structure of the P4-P6 domain of a group I intron in this organism provided information about the structure of the tight turn, adenosine platform, and tetraloop receptor; that intron was the first known RNA molecule with catalytic activity. Like other members of its phylum, this model organism contains a somatic genome in its macronucleus and a germline genome in its micronucleus. An enzyme first isolated in this organism adds repeats of the sequence TTGGGG to the end of chromosomes. Carol Greider and Elizabeth Blackburn discovered that enzyme, which is telomerase. For 10 points, identify this genus of ciliate protozoa that includes the species *pyriformis* and *thermophila*.

ANSWER: **Tetrahymena** [or *Tetrahymena thermophila*; or *Tetrahymena pyriformis*]

066-13-64-02107

8. This poem was used to title a historically based novel which suggests that William Smith Clark, the founder of the University of Massachusetts, was the so-called "Master Figure." A letter about this poem by Thomas Higginson says it was "the only poem I dread a little to print" and warns that "the malignant" will "read into it more than that virgin recluse ever dreamed of putting there" before wondering if "Miss Lavinia" has "any shrinking about it." This poem states "Futile the winds to a heart in port, done with the compass, done with the chart." This poem, whose last stanza begins "Rowing in Eden, ah the sea" proclaims the title times "our luxury." For 10 points, name this poem ending "Might I but moor tonight in thee," an ode to nocturnal eroticism by Emily Dickinson.

ANSWER: "**Wild Nights! Wild Nights!**"

019-13-64-02108

9. Three boats are seen without sails on the far left of one depiction of this entity, and four more ships sail behind a row of merchant's booths in that work. A man in a yellow hat appears to forcefully grab at a woman in a depiction immediately following that work. One depiction of this object includes three people walking in the snow with the person on the left appearing to have a cane and an umbrella. The final depiction of this object features carts and travelers crossing a river as they arrive at the imperial capital. Those works comprise a series that begins on the *Nihonbashi* and includes depictions of Kanagawa and Kambara. For 10 points, name this coastal road between Kyoto and Tokyo, depicted in a series of fifty three ukiyo-e prints by Utagawa Hiroshige.

ANSWER: **Tokaido**

002-13-64-02109

10. This theologian dubbed himself a "boundary man" for his attempts to synthesize old and new viewpoints, and he wrote a major book divided into five parts in which different types of questions are answered by the members of the Trinity, revelation, and the Kingdom of God. An early academic paper by this man contains his view that sin and redemption have consequences beyond humanity and actually alter the cosmos, and is his "Mysticism and Consciousness of Guilt in Schelling's Philosophical Development." With the aid of his mentor Martin Kähler, this man extended the doctrine of justification through faith to a wide-ranging "Protestant principle," and he used the "method of correlation" in his *Systematic Theology*. For 10 points, name this Christian existentialist who called himself the "apostle to the skeptics" for writing the popular theological tracts *Dynamics of Faith* and *The Courage to Be*.

ANSWER: Paul **Tillich**

019-13-64-02110

11. A lion and a bear attack in rapid succession in this book, setting up two rescues of maidens pursued by men who had been shipwrecked at Lydia. A duel of poems about reason and passion ensues in this book after Pyrocles calms down the revolting inhabitants of a village. Near the end of this book, the foreign king Evarchus arrives and is asked to judge the presumed murderers of a man who accidentally drank a sleeping potion. One character in this book takes the name "Zelmane" while in disguise as an Amazon, in pursuit of Philoclea, who is briefly condemned to death along with Pamela and Gynecia. It begins when four disastrous prophecies for the coming year are given by the Oracle of Delphi to Basilius, the duke of the title region. For 10 points, identify this pastoral romance dedicated to the Countess of Pembroke by Philip Sidney.

ANSWER: *The Countess of Pembroke's* **Arcadia**

019-13-64-02111

12. At one battle, this group pretended to abandon a large single layered pile of beans, before encircling their enemy. That tactic led to this group's victory at the Battle of Hu over Deng Yu and Feng Yi. The decision to keep Peng Yi alive allowed Liu Xu to defeat this group. One leader of this group used Mount Tai as his base. At Chengchang, this group defeated the combined forces of Wang Kuang and Lian Dan. An alliance between Yang Yin and Pang An with Fan Chong caused one part of this group's rebellion, which was partially led by Mother Lu. After one victory, this group turned against Emperor Gengshi. This group's name comes from a facial feature that distinguished them from the Xin. For 10 points, name this group that restored the Han dynasty by overthrowing Wang Mang.

ANSWER: **Red Eyebrows** [or **Chimei**]

149-13-64-02112

13. Harris proposed a three dimensional taxonomy of these circuits that classifies them based on the number of levels, fanout, and wiring tracks. A hybrid of two types of these circuits is used in the Han-Carlson example of them. Those two types of these circuits are part of a large class implemented using parallel prefix networks and are the Kogge-Stone and Brent-Kung ones. A Wallace tree is implemented using these circuits. Another type of this circuit uses propagate and generate signals to eliminate the bottleneck created when a bit has to ripple through a cascaded set of them. The simplest implementation of this type of circuit feeds both inputs to an XOR gate and AND gate, lacks a carry in bit, and is the half type. For 10 points, identify this type of digital logic circuit that sums its inputs.

ANSWER: **adder** [or **summer** before "sums" is read]

066-13-64-02113

14. The director of this film made one of its actors use maracas to punctuate some of his lines, which allowed a pause for audiences to laugh without missing dialogue. During a tango scene in this film, two characters trade a white rose between their mouths, harkening to *Charley's Aunt*; that scene is cross-cut with a scene in which a pretend-impotent pretend-millionaire is being kissed on a couch and talking like Cary Grant. The first appearance of a ukulele player in this film is on a train platform, where a cloud of steam jets out to encompass her derrière as she walks by. At a convention for "The Friends of Italian Opera" in this film, the coin-flipping, tommy gun-wielding Johnny Paradise, whose real-life father Mike Cheyne resembles, pops out of a cake to assassinate Spats Colombo and his gang. In this film, Sugar Kane leads Sweet Sue's band, which is joined by Jerry and Joe after they witness the St. Valentine's Day Massacre. This film closes with Osgood good-naturedly spouting the line "Well, nobody's perfect!". For 10 points, identify this Billy Wilder comedy about two cross-dressing jazz musicians who join a band led by Marilyn Monroe.

ANSWER: **Some Like It Hot**

066-13-64-02114

15. One figure of this name, a Naiad, bore the Lapith king Hypseus to the river god Peneus. A mortal of this name was the only survivor when some of her sisters were sacrificed and the others killed themselves to save the city of their father, Erechtheus. That woman married the infertile Xuthus, who eventually accepted her son by Apollo as his own and was rewarded by being able to father Achaeus and Dorus. In addition to that mother of Ion, another woman of this name meaning "princess" is also called Glauce and was killed by a poisoned, flaming dress sent by the vengeful Medea. Another unfortunate woman of this name predicted her husband's future adventures while a ghost after her unexplained death. For 10 points, give this name of the oldest daughter of Priam and Hecuba, the lost Trojan wife of Aeneas.

ANSWER: **Creusa**

105-13-64-02115

16. A husband and wife duo with this last name wrote the screenplay for *Sherlock Holmes: A Game of Shadows*. During a Saturday Night Live game show sketch, one man with this last name came to the realization that he had been sleeping with another man's wife after being told he is not Dylan McDermott. The host of *Canadian Idol* had this last name, and that man's time as guest host on *Live! with Michael and Kelly* has led to a job at Good Morning, America. Another man with this last name says that he "doesn't approve", compelling the singer to "get down and bust a crazy move", according to a single off the album *Make It Sparkle*. For 10 points, give this last name that actor Dermot and talk show host Ben share with Ben's father, former Prime Minister Brian.

ANSWER: **Mulroney**

002-13-64-02116

17. Supposedly, a map created by this man was used by Daniel Webster to garner support for the Webster-Ashburton treaty. The discussion group Junto was created by this man, who published the first Masonic book in America. He claimed that "the blood of the innocent will cry to heaven for vengeance", when writing about the Paxton Boys. In one work this man wrote "Humility. Imitate Jesus and Socrates". "Mrs. Silence Dogood" was a pen name used by this man in his brother's newspaper *The New-England Courant*. This man was both the US's first ambassador to France and first Postmaster General. This man drew a cartoon featuring a severed snake with the caption "Join or Die!" to support his Albany Plan. For 10 points, name this founding father that was struck by lightning while flying a kite.

ANSWER: Benjamin **Franklin**

149-13-64-02117

18. A triply eponymous reaction of this type uses aluminum alkoxide as a catalyst. A ketone undergoes this reaction enantioselectively in the presence of borane and a chiral oxazaborolidine catalyst. In a modification of another reaction of this type, carbonyl compounds, hydrazine hydrate, and a base are heated with diethylene glycol and, once hydrazone formation is complete, the temperature is raised to 200 C to drive off excess water and hydrazine hydrate. That reaction of this type is the base-promoted transformation of carbonyl compounds into corresponding hydrocarbons through the decomposition of hydrazone intermediates. Yet another reaction of this type transforms carbonyl groups to methylene groups with zinc amalgam and hydrochloric acid. Those mentioned reactions include Meerweein-Ponndorf-Verley, Corey-Bakshi-Shibata, Wolff-Kishner, and Clemmensen. For 10 points, identify this type of chemical reaction that is contrasted with oxidation.

ANSWER: **reduction** [prompt on **hydrogenation**]

066-13-64-02118

19. Operation Wallacea often visits the Cusuco National Park in this country, where Baird's tapir can be found. The greatest ruler of one site in this present-day country was Waxaklajuun Ub'aah K'awiil, or 18-Rabbit, who sponsored the creation of a grand ball court and many fine stelae, before being executed by his vassal Kawak Sky. Its islands of Guanaja, Útila, and Roatán are collectively known as the Bay Islands, and that site is Copán. Hurricane Mitch literally destroyed this entire country, killing over seven thousand people and causing over four billion dollars in damage. This country's capital is a pair of twin cities separated by the Choluteca River; those twin cities are Comayagüela and Tegucigalpa. For 10 points, identify this country bordered by Nicaragua, Guatemala and El Salvador, with which it fought the Soccer War.

ANSWER: **Honduras**

066-13-64-02119

20. The last of this man's estate is used to hire Dr. Jefferson James as the director of a charity hospital, five years after he dies of Bright's disease. This man outmaneuvers athletic field patron Anson Merrill and chemistry lab benefactor Hosmer Hand when he purchases a telescope for three hundred thousand dollars and donates it to the University of Chicago. He engineers the collapse of the American Match Corporation in order to damage banks which refused him loans. He is indicted for corruption along with city treasurer Stener shortly after he is shunned for his affair with Aileen Butler. He is encouraged to open a brokerage house by Seneca Davis shortly after making a one hundred percent profit on a lot of Java coffee as a teenager. In his first appearance, this character is enraptured by watching a lobster devour a squid. For 10 points, name this protagonist of *The Financier*, *The Titan*, and *The Stoic* by Theodore Dreiser.

ANSWER: Frank Algernon **Cowperwood** [or **Frank**]

019-13-64-02120

21. Titian may have mocked a reproduction of this work in a drawing in which the figure of this sculpture is an ape. Michaelangelo claimed that one of the missing arms of this figure should be reaching back behind the shoulder, and Raphael judged a competition to sculpt replacement parts for this statue. Pliny attributed the creation of this sculpture to a trio of otherwise unheard of sculptors from Rhodes. Gotthold Lessing 's essay on aesthetics was titled for this sculpture. This sculpture depicts Poseidon's response to the stabbing of a "gift" with a spear. For 10 points, name this sculpture in which the namesake Trojan priest and his children fight for their lives against sea monsters.

ANSWER: **Laocoon** Group [or **Laocoon and his Sons**]

002-13-64-02121



1. Name these stories from the *Arabian Nights*, for 10 points each.

[10] In this tale, Jafar finds out that his slave Rayhan is responsible for the confusion that led a man to murder his wife and hide her body in a chest in the Tigris River after retrieving the title objects from Basra.

ANSWER: "The **Three Apples**"

[10] This story is about a legendary ghost town which contains a vessel used by Solomon to trap evil djinn.

ANSWER: "The **City of Brass**"

[10] This story is about a son of Qaseem who marries Badroulbadoor and becomes the emperor of China are defeating two evil sorcerers who wish to control the djinns that he has summoned.

ANSWER: "**Aladdin**"

019-13-64-02201

2. A Voter ID law in this state allowing the use of expired gun permits and banning the use of social security cards or student IDs was implemented two hours after the *Shelby County v. Holder* decision was announced. For 10 points each:

[10] Name this state that had a vote in a special session of the legislature negated because the gallery was screaming too loud for order to be restored before midnight.

ANSWER: **Texas**

[10] This Texas State Senator stood for thirteen hours in pink sneakers to protest SB 5. In 2012, her staff managed to extinguish an office fire after a bomb was thrown into the office.

ANSWER: Wendy Russell **Davis**

[10] While two of the rules charges filed against Davis were for supposedly speaking "off-topic", the third was for Rodney Ellis assisting her in adjusting this device.

ANSWER: her **back brace**

002-13-64-02202

3. The spin form of this effect is observed when a thermal gradient applied to a spin-polarized material leads to a spatially varying transverse spin current in an adjacent non-spin-polarized material, where it gets converted into a measurable voltage. For 10 points each:

[10] Name this effect used as the basis for a thermocouple. It results in the production of an electric potential difference due to nonuniform temperature distribution in conducting materials not subject to a magnetic field.

ANSWER: **Seebeck** effect [prompt on **thermoelectric** effect]

[10] These relations from linear nonequilibrium thermodynamics are often applied to thermoelectric phenomena. They basically state that L_{ij} equals L_{ji} , where L is a linear phenomenological coefficient, and their derivation was based on the assumption of microscopic reversibility.

ANSWER: **Onsager** reciprocal relations [or word forms of "reciprocal"; prompt on **reciprocal** relations]

[10] The thermoelectric effect named for this man is the reversible heating or cooling observed when current flows through a single-material conductor whose ends are at different temperatures. He also correctly determined the value of absolute zero.

ANSWER: William **Thomson**, First Baron **Kelvin** [accept either]

066-13-64-02203

4. Note to moderator: do not read the alternate answers to the first part.

For unknown reasons, the author of this document left a blank space where his brother Johann's name should have gone, and asks that after his death, it be attached to the records of Dr. Schmid. For 10 points each:

[10] Name this 1802 document in which its author reveals his deafness.

ANSWER: **Heiligenstadt** Testament [or Ludwig van **Beethoven's first will**; prompt on Ludwig van **Beethoven's will**; prompt on that **testament** of Ludwig van **Beethoven**]

[10] The Heiligenstadt Testament was written by this composer, who had to be turned around to see the applause of the audience at the premiere of his ninth symphony. He also addressed a letter to "Immortal Beloved".

ANSWER: Ludwig van **Beethoven**

[10] Georg Kinsky and Hans Halm compiled this 1955 catalog of 205 works that Beethoven did not include in his official catalogs.

ANSWER: **WoO** [or **Works without opus numbers**; or **Werke ohne Opuszahl**]

002-13-64-02204

5. Texts from this corpus include the explanation of its aims by Manjusri and the questions of Suvikrantavikramin. For 10 points each:

[10] Identify this group of sutras, also including the Diamond Cutter sutra, and constituting the sixth and final part of the Mahayana "six perfections."

ANSWER: the **perfection of** transcendental **wisdom** sutras [or **prajnaparamita**]

[10] This popular perfection of wisdom sutra describes the enlightenment of Avalokitesvara.

ANSWER: **Heart** Sutra

[10] The Heart Sutra explains how this concept is the true nature of every component of Buddhist theology. This word, meaning "emptiness," is the theme of the perfection of wisdom genre.

ANSWER: **sunyata**

019-13-64-02205

6. The theme to this movie asks the title character if he has "never loved again", and tells him he must "face another day", and that song plays as that title figure drags a coffin through the mud and rain. For 10 points each:

[10] Name this 1966 Sergio Corbucci directed western, in which the title drifter wipes out major Jackson's men after revealing the coffin he drags contains a machine gun.

ANSWER: **Django**

[10] The role of Django in *Django* was played by this actor. He also played the Polish gun-for-hire Sergei Kowalski in *The Mercenary*, and Sir Lancelot in *Camelot*.

ANSWER: Franco **Nero**

[10] This director of *Django Unchained* thanked Franco Nero for his "Friendly Participation" for a scene in which Nero asks a Jamie Foxx-played character if he knows how to spell "Django". He is also featured as an employee of the LeQuint Dickey Mining Company in said film.

ANSWER: Quentin **Tarentino**

002-13-64-02206

7. These intracellular inclusions result from the oxidation of exposed sulfhydryl groups on hemoglobin, causing the formation of disulfide bonds and distortion of the tertiary structure of hemoglobin. For 10 points each:

[10] Identify these aggregates of denatured, precipitated hemoglobin that occur in red blood cells.

ANSWER: **Heinz**-Ehrlich bodies

[10] Heinz bodies are particularly prominent in these domestic animals, where they cause a namesake type of anemia. These animals are also affected by a namesake immunodeficiency virus that causes an AIDS-like syndrome.

ANSWER: **cats** [or **felines**]

[10] Feline immunodeficiency virus and feline leukemia virus use this enzyme to generate cDNA from RNA. Howard Temin and David Baltimore won a Nobel for their discovery of this enzyme.

ANSWER: **reverse transcriptase**

066-13-64-02207

8. This novel was followed by *The Snapper* and *The Van* in the Barrytown Trilogy. For 10 points each:

[10] Name this 1987 novel in which Jimmy Rabbite takes over a band begun by Derek Scully and Outspan Foster.

ANSWER: *The **Commitments***

[10] This author of *The Commitments* created abused wife Paula Spencer in *The Woman Who Walked Into Doors* and showed a Barrytown ten-year-old's embitterment by his parents' separation in *Paddy Clarke Ha Ha Ha*.

ANSWER: Roddy **Doyle**

[10] In *The Commitments*, Jimmy claims he is founding a new "soul" movement named for this city, the location of the Barrytown district, in which essentially all of Roddy Doyle's books take place. Sean O'Casey also set most of his plays here.

ANSWER: **Dublin**

019-13-64-02208

9. This entity supposedly made Castilian roses appear on a hill near Mexico City. For 10 points each:

[10] Name this Marian apparition that supposedly spoke to a man in Nahuatl near Mexico City. This entity is popular in Latin America.

ANSWER: **Our Lady of Guadalupe** [or **Virgin of Guadalupe**]

[10] This painter was supposedly the first person to see Our Lady of Guadalupe. She appeared to this man as a teenage girl on the Feast of the Immaculate Conception.

ANSWER: Juan **Diego** Cuahltatoatzin

[10] After first seeing the Virgin of Guadalupe, Juan Diego told this Franciscan, who was the first archbishop of Mexico City. As Protector of the Indians, this man feuded with Juan Ortiz de Matienzo and Diego Delgadillo over the treatment of Indians in Mexico.

ANSWER: Juan de **Zumarraga**

149-13-64-02209

10. *Note to moderator: do not read the alternate answer to the first part.*

This controversy was ended when a state's legislature overrode a veto by Joshua Densha, thus forcing him to shut down one of the title entities. For 10 points each:

[10] Name this controversy that began when one of the title entities was created in order to pass the Relief Party's legislation. William T. Barry served as the Chief Justice of one of the two title entities in this controversy.

ANSWER: **Old Court-New Court** controversy [or **Kentucky Relief** war]

[10] The Old Court-New Court controversy took place in this state. John Adair was a governor of this state, which was once represented by Henry Clay.

ANSWER: **Kentucky**

[10] This man, who served as Andrew Jackson's Postmaster General, was a proponent of the New Court. This editor-in-chief of the *Argus of Western America* is sometimes cited as the first "unofficial" US Press Secretary.

ANSWER: Amos **Kendall**

149-13-64-02210

11. Trygaeus attempts to end this conflict by riding to heaven on a giant dung beetle, and another attempt to end it involves a sex strike by the city's women. For 10 points each:

[10] Name this conflict which rages throughout both *Peace* and *Lysistrata*, and which Aristophanes often accused his political opponents of needlessly prolonging.

ANSWER: the **Peloponnesian War**

[10] The title chorus of coal-burners advocates stoning Dicaeopolis to death in this play, after he opens a market where Spartans may shop and prepares for the Feast of the Cups, and general Lamarchus is hurt digging a ditch. This is the oldest fully extant play by Aristophanes.

ANSWER: *The* **Acharnians**

[10] In Aristophanes's *The Knights*, the playwright had to perform as an actor himself because no one in Athens would manufacture this prop, used to mockingly portray "the Paphlagonian."

ANSWER: a **mask of Cleon**'s face [or equivalents; prompt on **mask**]

019-13-64-02211

12. The talud-tablero style of architecture probably originated in this city. For 10 points each:

[10] Name this pre-Columbian Mesoamerican city. This city's "Avenue of the Dead" is flanked by the large Pyramid of the Sun.

ANSWER: **Teotihuacan**

[10] This other Mesoamerican city was believed to be the capital of the Toltecs. Its Pyramid of the Morning Star features four large columns shaped like Toltec warriors.

ANSWER: **Tula** [prompt on **Tollan**]

[10] Tula's Pyramid of the Morning Star has a similar design to the Temple of the Warriors at this Mayan site, located on the Yucatan Peninsula.

ANSWER: **Chichen Itza**

149-13-64-02212

13. In graph theory, this operation is the subject of Vizing's conjecture. For 10 points each:

[10] Identify this operation whose input is two sets, A and B, and whose output is the set of all points, (u,v), where u is in A and v is in B.

ANSWER: **Cartesian product** [or **direct product**]

[10] Vizing's conjecture states that this number for the Cartesian product of two graphs is greater than or equal to this number for each graph multiplied together. This number is the cardinality of its namesake set, which is the set of vertices such that every vertex not in that set is adjacent to at least one vertex in the set.

ANSWER: **domination** number

[10] Much like matrix multiplication, the Cartesian product lacks this property because A cartesian product'd with B does not equal B cartesian product'd with A.

ANSWER: **commutativity** [or word forms]

066-13-64-02213

14. The female faces on this work supposedly represent the birth of a child. For 10 points each:

[10] Name this bronze canopy commissioned by Urban VIII. Each of the four supporting columns sports the coat of arms of the Barberini family, which features bees.

ANSWER: *St. Peter's* **Baldacchino**

[10] The *Baldacchino* was sculpted by this artist, who included the title saint being pierced by an arrow in his *Ecstasy of Saint Teresa*.

ANSWER: Gian Lorenzo **Bernini**

[10] One title figure reaches up to grab at the other in this mythologically-inspired Bernini marble sculpture, in which a woman is turned to a tree to protect her from the title deity.

ANSWER: **Apollo and Daphne**

002-13-64-02214

15. This book, which was later disavowed by its author for confusing Hegelian and Marxist concepts of alienation, elaborates on the Marxist theory of social relationships being turned into "things" in its section on "reification." For 10 points each:

[10] Name this 1923 book which claims that the emphasis on the dialectic over materialism makes Marxism a valid methodology regardless of its conclusions.

ANSWER: **History and Class Consciousness**: *Studies in Marxist Dialectics*

[10] This author of "Realism in the Balance" and *Soul and Form* wrote *History and Class Consciousness*.

ANSWER: Gyorgy **Lukacs**

[10] *History and Class Consciousness* relates reification to this similar concept, the ascribing of objective value to objects as opposed to use-value or labor-value. It was labeled a "narcissism" in a 2012 book by Stephen Dunne and Robert Cluley.

ANSWER: **commodity fetishism**

019-13-64-02215

16. This author described "offensive realism" in *The Tragedy of Great Power Politics*. For 10 points each:
[10] Name this international relations theorist who wrote *Why Leaders Lie* and collaborated with Stephen Walt on *The Israel Lobby and U.S. Foreign Policy*.

ANSWER: John **Mearsheimer**

[10] Mearsheimer wrote a gushing blurb for this Holocaust denier's book *The Wandering Who?*, and denied that its passages affirming the truth of the blood libel were anti-Semitic.

ANSWER: Gilad **Atzmon**

[10] Mearsheimer helpfully categorized all the Jews in the world as either "righteous Jews" or these type of people in his lecture "The Future of Palestine." This term is specifically applied to such unrelated people as Abraham Foxman, Charles Krauthammer, and Sheldon Adelson.

ANSWER: "**new Afrikaners**"

019-13-64-02216

17. This man wrote a book about the "Literary Underground" of Pre-Revolutionary France because he believed that a historian's job is to reconstruct worlds. For 10 points each:

[10] Name this historian who wrote about the murder of a bunch of cats by printers in Paris during the 1730s.

ANSWER: Robert **Darnton**

[10] Much of Darnton's work deals with France, which was the home of this school of historiography. Developed by Marc Bloch and Lucien Febvre, this group focused on long-term social history.

ANSWER: **Annales** School

[10] Members of the Annales School tended to dislike historiography influenced by this thinker. This thinker believed that societies ultimately progressed from primitive communism to communism.

ANSWER: Karl **Marx**

149-13-64-02217

18. Hilton Green used this painting as inspiration for part of the set design for the movie *Psycho*. For 10 points each:

[10] Name this work in which the title object has three orange structures emerging from the top of it. It was the first painting purchased by MoMA.

ANSWER: **House by the Railroad**

[10] *House by the Railroad* is a work by this American artist, who depicted a woman dining with her doppelganger in his *Chop Suey*.

ANSWER: Edward **Hopper**

[10] Another work of Edward Hopper depicts a woman, based on his wife Jo, sitting alone late at night in one of these self-service dining establishments. Several of these restaurants in New York City became Burger Kings in the 1970s, and an attempted revival of them closed in 2009.

ANSWER: **automat**

002-13-64-02218

19. This man spent thirteen years defending himself in a plagiarism lawsuit after publishing an edition of *Wheaton's International Law*. For 10 points each:

[10] Name this man who also was the winning solicitor general in the cases that legalized the Union blockade of the Confederacy. He wrote the travelogue *To Cuba and Back* and produced a book recounting a voyage around Cape Horn aboard the *Pilgrim*.

ANSWER: Richard Henry **Dana**, Jr. [the novel is *Two Years Before the Mast*]

[10] Herman Melville praised Dana's depiction of Cape Horn in this novel, his expose of the horrific practice of flogging on U.S. Navy ships. Its protagonist, a sailor aboard the *Neversink*, stitches the title garment from scraps of rags.

ANSWER: ***White-Jacket***; or, *The World in a Man-of-War*

[10] In *Two Years Before the Mast*, the *Pilgrim* was engaged in the trade of these items, which Dana is set ashore along with some Sandwich Islanders to process at San Diego.

ANSWER: cattle **hides** [or **skins** or other equivalents; prompt on **cattle** or synonyms]

019-13-64-02219

20. Philip J. Kocienski pairs these groups with death and taxes in his book on them. For 10 points each:

[10] Identify these groups that temporarily render a reactive functional group inert. They play an important role in multistep syntheses and include trisubstituted silyl ethers for alcohols.

ANSWER: **protective** groups [or **protecting** groups]

[10] Protective groups are required for alpha-amino acids in this type of synthesis, which attaches an amino acid to a solid polymer and adds succeeding amino acids in a stepwise manner. This synthesis purifies the intermediate peptides by dissolving away the impurities, rather than recrystallizing, and it was developed by Bruce Merrifield.

ANSWER: **solid phase** peptide synthesis [or **SPS**; or **SPPS**]

[10] Acetal is a common protective group for this functional group, which consists of a carbon double bonded to an oxygen.

ANSWER: **carbonyl** group

066-13-64-02220

21. This rebellion began with the defeat of Leif Crozier by troops under Gabriel Dumont at Duck Lake. For 10 points each:

[10] Name this Metis rebellion in Saskatchewan that ended at the Battle of Batoche. The Cree Indians Poundmaker and Big Bear were part of this rebellion.

ANSWER: **North-West** Rebellion [or **Saskatchewan** Rebellion; or **Northwest** Uprising; or **Second Riel** Rebellion]

[10] The North-West rebellion was led by this “prophet of the New World,” who had earlier led the Red River Rebellion. This man was convicted of high treason on the testimony of his cousin Charles Nolin at a trial overseen by Hugh Richardson.

ANSWER: Louis **Riel**

[10] The creation of this railway allowed the Canadian government to quickly send troops to quell the North-West rebellion. Sanford Fleming built part of this railway before a contract was given to a company that George Stephen belonged to.

ANSWER: **Canadian Pacific** Railway [or **CP Rail**]

149-13-64-02221