



1. At one point in this novel, a character retrieves the twenty-fifth edition of *The Serpent At Home* and praises such chapters as "Satan in the Hair Brush" and "Satan Under the Tea Table." Another character in this novel puts a paint-stained nightgown in a box which she then hides in quicksand before killing herself. Rosanna Spearman's suicide is covered up by Lucy Yolland in this book, which also features a character whose eye bulge gives him the nickname "Gooseberry." The central incident of this novel is caused by laudanum administered by Dr. Candy, and is finally unraveled by Sergeant Cuff, who discovers that evangelist Godfrey Ablewhite stole the title object, which originally was taken by John Herncastle from Seringapatam. For 10 points, name this novel in which the sleepwalking Franklin Blake begins the chain of events that results in three Hindus reclaiming the sacred title gem, written by Wilkie Collins.

ANSWER: *The Moonstone*

019-13-64-03101

2. In one speech, this man claimed that "National honour" and "the security of our great international trade" were "no party question[s]." A meeting at the Carlton Club was called after this man's hasty reaction to a possible Turkish attack on a guard station near the Dardanelles. The Chanak crisis occurred during this man's premiership. This man delivered the "Mansion House" speech in response to Germany sending the *Panther* to Agadir, Morocco. After the Shell Crisis, this man was placed in charge of the newly created Ministry of Munitions. Contemporaries of this man called him and Winston Churchill the "Terrible twins." While serving as Asquith's Chancellor of the Exchequer, this man pushed through the People's Budget. For 10 points, name this British Prime Minister at the end of World War I.

ANSWER: David Lloyd George

149-13-64-03102

3. This function is equal to negative the mass of the particle over two pi all times the T-matrix, which can be derived using the Lippmann-Schwinger equation. The wavefunction and this function can be expanded in terms of Legendre polynomials in partial wave expansion, which can be used to determine the phase shifts. Using the Born approximation, this function is the Fourier transform of the potential with respect to the wave vector. The optical theorem gives the extinction cross-section as equal to four pi over wavenumber times the imaginary part of this function and its square is equal to the differential cross-section. For 10 points, identify this function that gives the probability of scattering in a given direction.

ANSWER: scattering amplitude [or forward scattering amplitude]

066-13-64-03103

4. In a collaborative show with Jim Dine, this man included his newspaper and wire based "*Empire*" *Ray Gun*. In 1986 this artist put on *The Course of the Knife* in Venice's Arsenale. That show may be considered an evolution of a style of non-verbal artistic performances this artist referred to as "Happenings." Other works of this man include one built on top of a building in Cologne, and a piece that in 1994 dangled from a railing in the Guggenheim. Those sculptures are among the large number of works by this man that are just everyday objects blown up to a massive scale, such as a work on the Yale campus of giant make-up sitting on tank treads. For 10 points, name this sculptor of such works as *Dropped Cone*, *Giant Soft Shuttlecock*, and *Lipstick (Ascending) on Caterpillar Tracks*.

ANSWER: Claes Oldenburg

002-13-64-03104

5. In a major book, this philosopher divided six "wings" into the footprints, image, and actuality of God. This author of the regulatory "Constitutions of Narbonne" wrote a biography of the man who originally saw a six-winged angel at Mount Alverna. This formulator of an aitiological argument used the proposition that knowledge of truth leads to knowledge of divine light to put forth his "illuminationist" case for the existence of God. He was able to mediate the dispute between the Spirituals and the Relaxati after defending his order from attacks by William of Saint-Amour and becoming minister-general of the Franciscans. For 10 points, name this thirteenth-century author of the *Breviloquum* and *The Journey of the Mind to God*.

ANSWER: Saint **Bonaventure** of Bagnoregio [or San **Bonaventura**; or **Giovanni Di Fidanza**]

019-13-64-03105

6. In this movie, a scorpion is devoured by a carnivorous rabbit. After being told that no one needs to die because a war can be avoided, one character in this film claims "we are already ghosts". Another character in this film takes a dying man's necklace before that man's heart is eaten whole. A brothel owner asks the title figure to take revenge on the aforementioned cannibal as she poses under a painting of her as a ballerina. The title figure of this film is told his nickname means "wrong brother" by a man who claims to not be able to tell if a horse is "stupid or pretending to be stupid" and who claims that Butch Cavendish is a "wendigo." That former lawyer in this film is told to "never do that again!" after shouting "Hi yo, Silver! Away!" For 10 points, name this 2013 critical and box office flop in which Johnny Depp plays an outcast Comanche who refers to the Armie Hammer-played John Reid as "Kemosabe".

ANSWER: *The **Lone Ranger***

002-13-64-03106

7. One character in this novel carries a scrap of paper reading "They whirl asunder and dismember me," a slight misquotation of Blanch of Spain's speech from *King John*. This novel begins with its protagonist observing the underclass of subway workers as he rides a line from end to end. This novel, which revisits the author's *Rolling Stone* article "American Blood," takes a metafictional twist with the appearance of the archivist Nicholas Branch. At its end, Marguerite and Marina are prevented from seeing footage of the death of their relative, a defector to the USSR who becomes involved in a plot to start a war with Cuba. For 10 points, name this novel that speculates on the John F. Kennedy assassination, a DeLillo book named for Lee Harvey Oswald's astrological sign.

ANSWER: ***Libra***

020-13-64-03107

8. This man was supposedly fought against by a woman who killed using only roasted spits and stones; that woman was Zarcamodonia. Alessandro de Mecici oversaw the negotiations between this man and another that resulted in the Peace of Vervins. This king's troops, led by Fadrique Alvarez de Toledo, stormed Mechelen. This man's forces retook the Alpujarras region after the Battle of Galera. This man's attempts to force people to abandon their style of clothing led to the second revolt of the Moriscos. While serving this king, the Spanish Fury was carried out on the orders of the Duke of Alba. Two years after winning at San Quentin, this king signed the Peace of Cateau-Cambresis with Henry II of France. For 10 points, name this Spanish king who was married to Mary I.

ANSWER: **Philip II** of Spain [or **Philip I** of Aragon; or **Philip I** of Portugal]

149-13-64-03108

9. For the Milky Way, this quantity can be written as $A r \sin^2 i$ where A is an Oort constant. The correlation of the spread of this quantity with luminosity can be improved by including a parameter for surface brightness, such as in the fundamental plane. This quantity is plotted against radius in a rotation curve. The dispersion of this quantity is empirically correlated to the luminosity of an elliptical galaxy by the Faber-Jackson relation. Small variations in a star's proper motion can be observed in one form of this quantity, which forms the basis for a method for detecting extrasolar planets; that is the radial form of this quantity, which is usually measured with the Doppler effect. The Hubble constant relates this parameter of a galaxy to its distance. For 10 points, identify this quantity whose escape form, for a black hole, is greater than the speed of light.

ANSWER: radial **velocity**

066-13-64-03109

10. A friend of this person, Gregory Dexter, published his book about Native American languages titled *A Key into the Language of America*. This man's unification plan was opposed by a man who bought Aquidneck Island, with the aid of this man, William Coddington. He put forth the rule of Artaxerxes as a model in a work that is a dialog between "truth and peace". The first Baptist church in America was founded by this author of *The Bloody Tenent of Persecution*. After the death of Reverend Skelton, this man, who aided the Antinomians, became the active pastor in Salem. He was sheltered by the Massasoit of the Wampanoags after being kicked out of the Massachusetts Bay Colony for calling for the separation of church and state. For 10 points, name this founder of Providence Plantation, which eventually became part of Rhode Island.

ANSWER: Roger **Williams**

149-13-64-03110

11. The only one of these poems to make a straightforward adaptation of an "epic theme" is number 45 of their first book, modeled on Bacchylides. Several of these poems are instructions for preparing a symposium, and others are the first use of political themes outside of epics in Latin. They also explain their author's refusal to write an epic in the *recusatio* poems. A notable one of these poems orders Leuconoe not to toy with Babylonian fortune-telling and notes that "envious time will have already fled." The author claimed that these poems were inspired by Alcaeus and Sappho, and there are 88 of them in all. These were the last lyric works by their author until the *Carmen Secularae*. For 10 points, identify these poems, whose eleventh one in Book One instructs the addressee to "seize the day," that were written by Horace.

ANSWER: the **Odes** of Horace

019-13-64-03111

12. During this event, the generals Guo Ziyi and Li Guangbi decided to ask for help from the Uygher Khaganate. The forces of this event were led by Linghu Chao against Zhang Xun at the Battle of Yongqiu. This event was spurred by the death of Li Linfu and one man's subsequent strife with Yang Guozhong. One of the "four beauties," Yang Guifei, was executed because of this event, in which Shi Siming participated. Al-Mansur sent Arab mercenaries to aid in the recapture Chang'an during this event, which began with the capture of Luoyang. This rebellion began four years after the Battle of Talas with the creation of the Yan dynasty. For 10 points, name this rebellion against a man who had supposedly seasoned the soup of Li Po, the Tang dynasty ruler Xuanzong.

ANSWER: **An Lushan** rebellion [or **An-Shi** rebellion]

149-13-64-03112

13. This quantity can be determined by finding the y-intercept on a plot of reduced osmotic pressure versus concentration in a technique called membrane osmometry. This quantity can also be determined by measuring turbidity at different concentrations and angles, using light scattering, and double extrapolating the data to zero, as depicted on a Zimm plot. This quantity is related to intrinsic viscosity by the Mark-Houwink-Sakurada equation. By using Carothers equation, this quantity can be calculated as the mass of the repeating unit over one minus the monomer conversion. The polydispersity index is given by the ratio of the weight average and number average forms of this quantity. For 10 points, identify this quantity that determines many physical properties of polymers that shares its name with the mass of one mole of a substance.

ANSWER: number average **molecular weight** [or weight average **molecular weight**; or absolute **molecular weight**; or viscosity average **molecular weight**; or **molar mass** or **molecular mass** in place of "molecular weight"; prompt on molecular **weight distribution** or molar **mass distribution**]

066-13-64-03113

14. In one work by this composer, the overture of a Richard Wagner opera is intentionally mangled as if being sight-read by a spa orchestra early in the morning. One of this composer's important early works is a setting of a fifteen-poem cycle about the life of the Virgin Mary, *Das Marienleben*. William Furtwängler's attempted staging of an opera by this composer eventually culminated in his resignation from the Staatsoper and Berlin Philharmoniker. Another work by this composer includes twelve fugues with eleven linking interludes and a prelude and postlude that are retrograde inversions of each other. This composer was a leading proponent of *Gebrauchsmusik*, and often played in a trio with Szymon Goldberg and Emanuel Feuermann. Yet another work by this composer was written in just six hours upon hearing of the death of King George V and is scored for orchestra and viola, an instrument of which he was a master. That work is *Trauermusik*, and other works include *Ludus Tonalis* and *Symphonic Metamorphosis on Themes by Carl Maria von Weber*. For 10 points, identify this righteous anti-dodecaphonist whose first symphony was based on themes from his opera *Mathis der Maler*.

ANSWER: Paul **Hindemith**

002-13-64-03114

15. This man speaks a curse on a horse's head mounted atop a hazel-pole, then turns the head inland toward the curse's victims. By offering him disgusting seaweed and a drinking-horn full of milk, this man's daughter convinces him to come out of isolation following his son's death. As a small child, this man defies his father by showing up to a drinking party and originates a blood feud by axe-murdering another kid who beats him in a ballgame. During this man's service under the banner of King Athelstan, his elder brother Thorulfur dies, so this man marries Thorulfur's widow, his foster-sister Asgerdur. The first thirty chapters of his namesake work describe the conflict between his father Skallagrim and King Harald of Norway. His saga, which focuses on his enmity with Harald's son Erik Bloodaxe, ends with the conversion of his son to Christianity. For 10 points, name this farmer, warrior, and outlaw, the hero of an Icelandic saga.

ANSWER: **Egill** Skallagrimsson [prompt on **Skallagrimsson** until "Skallagrim" is read]

020-13-64-03115

16. In July 2013, this man co-authored a paper in *American Psychologist* deriding Frederickson and Losada's "positivity ratio" for using fluid dynamics equations to model emotions to four significant figures. In a noted article, he put parentheses around the first letter of the phrase "wholes and boundaries" and began with quotes from Valerie Greenberg and Stanley Aronowitz. This man said that the book *Higher Superstition* inspired his most noted action. He was accused of removing accusations about Jacques Derrida from the French-language edition of a book he co-wrote with Jean Bricmont, *Fashionable Nonsense*. He revealed in the magazine *Lingua Franca* that he submitted "a pastiche of left-wing cant, fawning references, grandiose equations, and outright nonsense" to *Social Text*. For 10 points, name this author of "Transgressing the Boundaries: Towards a Transformative Hermeneutics of Quantum Gravity," who lends his name to the "hoax" which proved the worthlessness of postmodernism and "critical theory."

ANSWER: Alan **Sokal**

019-13-64-03116

17. Although it is not catalytic RNA, T. A. Steitz proposed that these enzymes use a two-divalent-metal-ion mechanism for catalysis. A nuclease and one of these enzymes is used in the technique of nick translation. The first one of these enzymes to be discovered can be cleaved by subtilisin to yield a Klenow fragment, which lacks 5-prime to 3-prime exonuclease activity. These enzymes add a deoxynucleotide to a free hydroxyl at the 3-prime end of a nucleic acid strand. Two of the most commonly used types of them are *Pfu* and *Taq*, which are central to a technique invented by Kary Mullis. For 10 points, identify these enzyme that are used to amplify DNA in a namesake "chain reaction."

ANSWER: DNA **polymerases** [or **pols**]

066-13-64-03117

18. Near the end of this poem, the speaker commands the rabbi to "solemnize the secretive syllables" after informing him that we are "an unhappy people in a happy world." This poem rejects images of "mountains running on water, wave on wave, through waves of light," saying "this is nothing until in a single man contained, nothing until this named thing nameless is and is destroyed," before he "opens the door of his house on flames." It culminates in the realization that "there may be always a time for innocence" but "there is never a place." The first of its ten cantos in tercets discards three mythologies of a serpent by bidding "Farewell to an idea," introducing instead a man walking on a white beach, observing the title meteorological phenomenon. For 10 points, name this title poem of Wallace Stevens's last collection.

ANSWER: "The **Auroras of Autumn**"

020-13-64-03118

19. Before joining the Strapese group, Giorgio Morandi spent time painting in the style of this movement, and Carlo Carra abandoned futurism to help found this movement. One work by an artist associated with this movement features a male mannequin standing in women's shoes and pointing at the title object. Another painting by a member of this movement features a long-necked centaur exchanging glances with the eye of a cloud, and another painting by that man features two intertwined lovers have their heads covered by the heads of classical sculptures. The painter of those works, Alberto Savinio, was the younger brother of a painter who painted a column topped with a bust that has a balloon for a head in his painting *The Disquieting Muses*. For 10 points, name this art movement most known through the works of Giorgio de Chirico.

ANSWER: **metaphysical art** [or **pittura metafisica**]

002-13-64-03119

20. This man invoked a taxpayer protection bill as part of his investigation of climate scientist Michael Mann. Citizens United released a film attacking an opponent of this man as “Fast.” This politician requested that the Supreme Court re-instate an overturned law banning sexual “crimes against nature,” and while serving in the state legislature blocked efforts to bring that law in line with *Lawrence v. Texas*. This man issued a memo to public universities in his state claiming that “sexual orientation” could not be included as a protected status in their anti-discrimination policies. After a newspaper insisted that this man uphold tradition by resigning, he retorted that “tradition” dated all the way back to 1982. For 10 points, name this Republican candidate currently opposed by Terry McAuliffe in his attempt to become Governor of Virginia.

ANSWER: Ken **Cuccinelli II**

002-13-64-03120

21. A man, referring to an agreement named for one of these places, stated "we better grab the signatures, this paper and run". That agreement, named for one of these places, was opposed by Levesque and gave Canada a constitution. One man claimed that "We build for our children and grandchildren" during an event named for one of these places and later claimed to be a "lawyer for communism". A group named for one of these places included Francis Blair and Roger Taney. That event named for one of these places took place at the American National Exhibition, and a group with this name advised "Old Hickory". For 10 points, a debate between Khrushchev and Nixon shares what name with Andrew Jackson's informal cabinet?

ANSWER: **kitchen** [or **Kitchen** accord]

149-13-64-03121



1. This author appropriated the tune of Stephen Foster's minstrel song "Uncle Ned," transforming the lyrics into a celebration of his adventure. For 10 points each:

[10] Identify this slave, who, after being sundered from his wife and children, enlisted the aid of the store-keeper Samuel Smith in a scheme to ship himself from Richmond to Philadelphia.

ANSWER: Henry "Box" **Brown**

[10] "Box" Brown's eager retelling of his personal story upset this abolitionist, who thought that it worsened the chances of future slaves. This founder of the *North Star* recounted his own escape in *My Bondage and My Freedom*.

ANSWER: Frederick **Douglass** [or Frederick Augustus Washington **Bailey**, if you're into referencing the identities that people rejected]

[10] Henry Louis Gates arranged for the 2002 publication of this dark autobiography of the runaway slave Hannah Crafts. It includes Hannah's insane mulatto mistress, who dies of a brain aneurysm.

ANSWER: *The **Bondswoman's Narrative***

020-13-64-03201

2. A book about this engagement is subtitled *From Surprise to Victory* and was written by V.P. Malik. For 10 points each:

[10] Name this conflict that included the Battle of Tololing. It began when disguised troops from one side crossed the Line of Control.

ANSWER: **Kargil** War [or **1999 Indo-Pakistani** war; or **Fourth Indo-Pakistani** war]

[10] The Kargil War was fought over this area of land that has been a frequent bone of contention between India and Pakistan.

ANSWER: **Kashmir**

[10] Mirage 2000H fighter jets were used to destroy bunkers in this Indian operation during the Kargil war. Ajay Ahuja crash landed during it.

ANSWER: Operation **Safed Sagar**

149-13-64-03202

3. The systolic automata of this name is a triangularly shaped system of hexagonally connected processors. For 10 points each:

[10] Identify this term also applied to a type of diagram used to visualize convolutional codes. The shortest path through this type of diagram can be calculated with Viterbi's algorithm.

ANSWER: **trellis** [prompt on **state** diagram]

[10] In one method of convolutional coding, input bits are stored in fixed length shift registers and combined with this binary logic operation, which is equivalent to modulo-2 addition.

ANSWER: **EXOR** [or **exclusive-OR**; or **EOR**; or **exclusive disjunction**]

[10] When Gottfried Ungerboeck introduced trellis-coded modulation, he created the code by partitioning subsets of a constellation map to maximize the minimum of this quantity. For a two-dimensional constellation map, it's the square root of the sum of the squared differences of the x-components and y-components.

ANSWER: Euclidean **distance** [or Euclidean **metric**]

066-13-64-03203

4. This phrase titles a treatise by Philippe de Vitry and its second phase was the *ars subtilior*. For 10 points each:

[10] Identify this phrase that names the music period following the *ars antiqua*.

ANSWER: ***ars nova*** [prompt on **New Art**]

[10] This poem and important musical document contains some of Philippe de Vitry's pieces in the *ars nova* style. It was written by Gervais du Bus and its title character is a fawn-colored horse whose name forms an acrostic for the cardinal sins.

ANSWER: ***Roman de Fauvel***

[10] These wandering composers of South France were active in the twelfth and thirteenth centuries and sang a lot about love. Their northern counterparts, the *trouvères*, included Adam de la Halle, who is the composer of the oldest known secular theater piece, *Le Jeu du Robin et Marion*.

ANSWER: ***troubadours*** [or ***trobairitzs***]

066-13-64-03204

5. Emmanuel Levinas first translated this book into French, and it seeks a "universal constitutive synthesis" of various modes of consciousness directed towards every phenomenon. For 10 points each:

[10] Name this book, based on 1929 Sorbonne lectures, which begins with the title method of doubt and ends with a lengthy fifth section explaining how "transcendental idealism" does not negate the reality of the external world.

ANSWER: ***Cartesian Meditations***

[10] This phenomenologist author of *Logical Investigations* and "Philosophy as Rigorous Science" wrote *Cartesian Meditations*.

ANSWER: Edmund **Husserl**

[10] This social interpreter of Husserl explained the role of "contemporaries," "predecessors," and "successors" in the "lifeworld" in his *The Phenomenology of the Social World*.

ANSWER: Alfred **Schutz**

019-13-64-03205

6. In a radio interview, Sandra Cisneros decried this program's alienation of women and students of color, though she credited a lecture here with inspiring the metaphor of the house in *The House on Mango Street*. For 10 points each:

[10] Name this graduate creative writing program, founded in 1936, where such writers as Wallace Stegner and Flannery O'Connor spent their formative years under faculty including Robert Penn Warren, Robert Lowell, and John Berryman.

ANSWER: **Iowa Writers' Workshop** [or **Program in Creative Writing** at the University of Iowa; prompt on University of **Iowa**; prompt on **UI**]

[10] In a letter to prospective Writers' Workshop teacher Richard Gehrman, this author warned him that the former head, Paul Engle, "talks like a man with a paper asshole." While at the program, this man began work on *Slaughterhouse Five*.

ANSWER: Kurt **Vonnegut Jr.**

[10] Vonnegut became close friends with this fellow student, who penned the short story collection *Eleven Kinds of Loneliness* and captured the ennui of the early 60s in *Revolutionary Road*.

ANSWER: Richard **Yates**

020-13-64-03206

7. The abstract of one paper by this physicist, and some colleagues, answered the question "Can apparent superluminal neutrino speeds be explained as a quantum weak measurement?" with "Probably not." For 10 points each:

[10] Identify this British physicist who rediscovered the geometrical phase and won an Ig Nobel with Andrey Geim for levitating frogs via induced diamagnetism.

ANSWER: Michael Victory **Berry**

[10] Berry's geometric phase is commonly seen in the effect named for this physicist and Bohm. He also discovered superoscillations, a phenomenon in which a band-limited signal varies faster, in some region, than any of its Fourier components.

ANSWER: Yakir **Aharonov**

[10] Superoscillations were discovered as a consequence of the fact that this principle allows one to select the initial and final boundary conditions of a quantum mechanical system independently. This principle is equivalent to the statement that the product of the standard deviations of momentum and position measurements is greater than or equal to $\hbar/2$.

ANSWER: **Heisenberg uncertainty** principle [accept either]

066-13-64-03207

8. This hymn begins "it is truly right to bless thee" and is named for the icon at the Mount Athos katholikon. For 10 points each:

[10] Identify this hymn in the form of a sticheron, which is chanted three times a day in monastic services, including at the end of the Divine Liturgy.

ANSWER: "**Axion Estin**" [or "**It Is Truly Meet**"]

[10] "Axion Estin" is an important hymn in this broad denomination of Christianity, which practices the Easter Vigil.

ANSWER: Eastern **Orthodoxy**

[10] In "Axion Estin," Mary is addressed with this title, meaning "birth-giver of God," which was approved to much controversy at the Council of Ephesus.

ANSWER: "**Theotokos**"

019-13-64-03208

9. William Dudingston captained the vessel involved in this affair. For 10 points each:

[10] Name this colonial incident in which members of the Sons of Liberty raided the namesake ship, which ran aground in Rhode Island after chasing after the *Hannah*.

ANSWER: HMS **Gaspee** affair

[10] This employee of John Brown helped lead the raiders during the *Gaspee* affair. He was accused by James Wallace of burning the *Gaspee*.

ANSWER: Abraham **Whipple**

[10] This man was Rhode Island's governor during the *Gaspee* affair. This co-founder of Brown University played a big role in Britain's inability to successfully charge anyone with burning the *Gaspee*.

ANSWER: Joseph **Wanton**

149-13-64-03209

10. One of the most common treatments for this disease is omeprazole, which is a proton-pump inhibitor. For 10 points each:

[10] Name this disease in which stomach acid or bile flows back into the esophagus.

ANSWER: acid **reflux** disease [or **GERD**; or **gastroesophageal reflux** disease; or **gastric reflux** disease; or **GORD**; or **gastro-oesophageal reflux** disease; prompt on **heartburn**]

[10] Barrett's esophagus is a condition associated with GERD in which the squamous epithelial cells of the esophagus are replaced with this type of epithelial cell. They include goblets cells and absorptive cells.

ANSWER: intestinal-like **columnar** cells

[10] Barrett's esophagus is an example of this process, in which one cell type is replaced with another, possibly reversibly.

ANSWER: **metaplasia**

066-13-64-03210

11. A character created by this man reunites with Maksim Maksimych. For 10 points each:

[10] Name this Russian poet who created Grigory Pechorin in *A Hero of Our Time*.

ANSWER: Mikhail **Lermontov**

[10] In *A Hero of Our Time*, Pechorin kills this friend of his in a duel. This man is a cadet with a passion for “declamation.”

ANSWER: **Grushnitski**

[10] The section of *A Hero of Our Time* in which Pechorin kills Grushnitski is titled for this character, the daughter of Princess Ligovski. Pechorin flirts with this character but cheats on her with Vera.

ANSWER: Princess **Mary**

149-13-64-03211

12. This man was defeated by Lucius Verginius Rufus at a battle fought near Besancon. For 10 points each:

[10] Name this Roman governor of Gallia Lugdunensis who led a revolt against Emperor Nero.

ANSWER: Gaius Iulius **Vindex** [pronounced “Windex”]

[10] Vindex supported this governor of Hispania as the emperor. He was the first emperor during the Year of the Four Emperors.

ANSWER: Servius Sulpicius **Galba** Caesar Augustus

[10] This Praetorian Guard is best remembered for his defense of Galba against the assailants of Otho. His valiant efforts allowed Galba's declared successor, Piso Licinianus, to briefly escape death.

ANSWER: Sempronius **Densus**

149-13-64-03212

13. This geographic feature is located just south of the very similar but much smaller Coipasa salt flat. For 10 points each:

[10] Identify this largest salt flat in the world.

ANSWER: Salar de **Uyuni** [or Salar de **Tunupa**]

[10] The Uyuni salt flat and Coipasa salt flat are both found in this country. The border between this country and Peru features Lake Titicaca, which is drained by the Lake Poopó-feeding Desaguadero River.

ANSWER: **Bolivia**

[10] The southeast of Bolivia lies partially in the drainage basin of this river that is formed by the confluence of the Uruguay and Paraná. Montevideo lies on this river, which is really more of a bay if you ask me.

ANSWER: **Río de la Plata** [or River **Plate**; or **Silver** River]

066-13-64-03213

14. Several of this director's films dealt with the once-taboo subject of the 228 Incident and the nearly forty years of the KMT-imposed White Terror that followed. For 10 points each:

[10] Identify this director of a *A City of Sadness* and *Flowers of Shanghai*, the latter of which was adapted from a Mandarin translation by the extremely important modern Chinese author Eileen Chang.

ANSWER: **Hou Hsiao-Hsien** [accept either]

[10] This Chinese director had several films banned by the government, including *Raise the Red Lantern* and *To Live*. He also directed *Red Sorghum*, which is indeed an adaptation of Mo Yan's novel.

ANSWER: **Zhang** Yimou

[10] This branch of Chinese-language cinema, distinct from Taiwanese and Chinese, includes such directors as John Woo and Wong Kar-Wai, the director of *In the Mood for Love*.

ANSWER: **Hong Kong** cinema

002-13-64-03214

15. The Ja'fari is the leading school of thought within this topic for Shia. For 10 points each:

[10] Identify this general code, whose Maliki school dominates in Africa.

ANSWER: **Sharia** law

[10] Ibn Tamiyah brought this school of Sharia back to popularity in Arabia, and it is the guiding madhhab of the Wahhabi movement. The strictest of the major Sharia schools, it prohibits all use of ra'y and qiyas.

ANSWER: **Hanbali** [or **Hanabilah**]

[10] Named after the first three generations of Muslims, this movement within Wahhabism seeks to emulate practices from before the fourteenth century and discourage all religious innovations.

ANSWER: **Salafism**

019-13-64-03215

16. Answer the following about the soundtrack Jay-Z put together for Baz Luhrmann's 2013 adaptation of "The Great Gatsby", for 10 points each.

[10] This founder of Third Man Records provided a cover of U2's "Love is Blindness". A previous foray into the world of movie soundtracks saw this man partner with Alicia Keys to write "Another Way to Die" for the *Quantum of Solace* soundtrack.

ANSWER: Jack **White** III [or **Three Quid**; or John **Gillis**]

[10] This singer asked "will you still love me when I no longer" have the title qualities in her song "Young and Beautiful", which was also covered by the Bryan Ferry Orchestra for the movie. You might know her as Sparkle Jump Rope Queen.

ANSWER: Lana **Del Rey** [or **LDR**; or Lizzy **Grant**; or May **Jailer**; or Elizabeth Woolridge **Grant**; or Lana **Rey Del Mar**]

[10] This English indie band released their new single "Together" as part of the soundtrack, and leaked their 2012 album *Coexist* to a single fan to see how fast it would go viral.

ANSWER: The **xx**

002-13-64-03216

17. The triumvirate of Jakub Berman, Hilary Minc, and Boleslaw Bierut ruled this country after the fall of Wladyslaw Gomulka. For 10 points each:

[10] Name this country that was split in half by the Soviet Union and Germany in the Molotov-Ribbentrop pact.

ANSWER: People's Republic of **Poland** [or Republic of **Poland**]

[10] In 1967, Gomulka purged Poland of these people. Following World War II, Stalin labeled a number of these people as "cosmopolitan" in his attempt to dictate the narrative of the "Great Patriotic War."

ANSWER: **Jewish** people [or **Jews**]

[10] Stalin's post-War anti-Semitic campaign is discussed in this book by Timothy Snyder. This book examines the fate of the title region under the rules of Stalin and Hitler.

ANSWER: ***Bloodlands: Europe between Stalin and Hitler***

149-13-64-03217

18. This law was inspired by attacks on Robert Walpole such as Henry Carey's satire *Chrononhotonthologos* and *The Beggar's Opera*. For 10 points each:

[10] Name this 1737 act of Parliament, finally passed after the debut of the anonymous *A Vision of the Golden Rump*, which gave the Lord Chamberlain power of censorship over plays, driving many leading authors to focus on novels.

ANSWER: the **Licensing** Act

[10] This author's play *Tom Thumb* also helped trigger the act; he spent the next several years writing political columns under the pseudonym "Sir Hercules Vinegar" before penning novels such as *Shamela* and *Tom Jones*.

ANSWER: Henry **Fielding**

[10] In 1752, Fielding started *The Covent-Garden Journal* and declared his opposition to "hack writers," leading to this two-year exchange of literary insults that included the writing of *The Hilliad* and *The Smartiad*.

ANSWER: the **Paper War**

019-13-64-03218

19. This man painted a seated portrait of Cardinal Newman and depicted a child looking up in wonder in his *Bubbles*. For 10 points each:

[10] Name this Pre-Raphaelite that showed a woman undressing in his depiction of *The Eve of St. Agnes* and a man grasping at a leopard in his *Pizarro Seizing the Inca of Peru*.

ANSWER: John Everett **Millais**

[10] Charles Dickens had several mean things to say about this Millais painting, in which the title figure has injured his hand while assisting on a carpentry project.

ANSWER: ***Christ in the House of His Parents***

[10] In this Millais painting, a woman hands the title document to a British soldier as her wounded husband holds onto her for support.

ANSWER: ***Order of Release***

002-13-64-03219

20. This process requires a seed layer if the substrate used is not electrically conductive. For 10 points each:
[10] Name this process of producing a metallic coating on a surface by the action of electric current. The substrate used in this process is made the cathode.

ANSWER: **electroplating** [or **electrodeposition**; or **electrochemical deposition**; anti-prompt on **galvanization**]

[10] This trapezoidal cell is designed so that the cathode is at an angle to the anode; that design facet allows a wide range of current densities to be tested at once. It is used to rapidly test the quality of electroplating recipes.

ANSWER: **Hull** cell

[10] This electrode is defined to have a charge of zero volts; it consists of a platinum electrode in an acid with zero pH. This non-calomel reference electrode is used to determine the standard electrode potential of other half-cells.

ANSWER: **SHE** [or **standard hydrogen** electrode]

066-13-64-03220

21. This set of equations is combined with Maxwell's equation in magnetohydrodynamics. For 10 points each:

[10] Identify these doubly-eponymous nonlinear partial differential equations that describe the motion of a fluid.

ANSWER: **Navier-Stokes** equations

[10] Alfvén's theorem, a fundamental result in MHD, is analogous to this theorem, which states that circulation around any closed loop in an inviscid fluid is independent of time.

ANSWER: **Kelvin's** circulation theorem

[10] The Alfvén speed, which is the group and phase speed of Alfvén waves, determines the maximum propagation speed in a plasma before this thing forms. They can be thought of as a thin discontinuity in density, velocity, and temperature.

ANSWER: **shock wave** [or **bow shock**]

066-13-64-03221