

1. One performance by this artist has a title that refers to the 1,900-page manuscript of his first novel, and contains numerous re-enactments of stories told from the perspective of that novel's main character, Brewster North, as well as an attempt to find someone in Los Angeles unconnected with Hollywood. In addition to performing *Monster in a Box*, this artist also performed an act titled *Terrors of Pleasure* based on his rental of an upstate New York cabin where he lived with his girlfriend Renee, who is referenced in many of his works. This artist's most famous performance contrasts the Hamptons, where "you have... a carrot, and a carrot, and a carrot, and desire, and desire, and desire," with the Gulf of Siam, where there was "nothing to buy." That work by this artist features him pointing to a map of the title country and discussing Operation Breakfast and Lon Nol, and grew out of this man's travel to the title country to play a minor part in *The Killing Fields*. For 10 points, identify this artist, an actor, essayist, and monologist best known for his one-man film *Swimming to Cambodia*.

ANSWER: Spalding **Gray**

2. Writing about this campaign years after the fact, one of its leaders remarked that he conceived of it in conversation with Colonel Bremond. Material support for this campaign was partially provided by Archibald Murray, and part of the purpose of this campaign was to facilitate a linkup between the forces of Murray and those commanded by the leaders of this campaign. One maneuver executed towards the end of this campaign used an eclipse to take the post of Kethira and the crucial battle of this campaign was fought at the blockhouse of Abu al Lasan. The leaders of this campaign included Auda abu Tayi and Sherif Nasir, and it began with a group of 50 men which swelled to about 500 with the help of bribes with British gold being carried by one of its leaders. Oriented around an oasis-hopping strategy to cross the Hejaz, for 10 points, identify this military campaign of the Arab Revolt against the Ottomans orchestrated by T.E. Lawrence, which resulted in the capture of the target Jordanian port city.

ANSWER: capture of **Aqaba** [accept anything mentioning the city name; prompt on any partial answers mentioning the Arab revolt]

3. This concept is held to transform historical events into categories in a work which argues that Christian thought transcended this concept "just as it had undertaken to transcend all the other archaic viewpoints." In a final section titled "The Terror of History," the work analyzing this concept argues that it has made a reappearance in the writings of Spengler and Toynbee. That work sets out to study "archaic ontology," and uses the example of Nawruz and the *Atharva-veda* to illustrate this concept, while claiming that archaic man had an antagonistic attitude toward history. The work which introduces this concept claims that it is revealed by the phases of the moon, and argues that the two forces conceptualized by Empedocles, *philia* and *neikos*, or love and strife, explain this process. For 10 points, identify this term that signifies "the cyclical recurrence of all that has been before," first introduced in a book published as *Cosmos and History* by Mircea Eliade.

ANSWER: the myth of **eternal return**

4. One work in this collection bemoans a "Poor nation, whose sweet sap and juice/ our cyens have purloin'd," and who, "now by keeping, lose the letter." In addition to "The Jews," this collection contains a work whose first three stanzas begin, "I know the ways of learning," "I know the ways of honour," and "I know the ways of pleasure," while in the fourth stanza claims "I fly to thee and fully understand/ Both the main sale and the commodities," and imagines a silken thread which teaches the author "to climb to thee." Another poem in this collection, which includes "The Pearl," begins with the narrator "[striking] the board" and crying "No more," and ends "Me thoughts I heard one calling, "Child,"/and I reply'd, "My

Lord." That poem in this collection refers to the profession of its author, and is titled "The Collar." The most famous poem in this collection begins "Lord, who createdst man in wealth and store," and takes the orthographic form of the title objects. For 10 points, identify this collection containing the shape-poem "Easter Wings," as well as many other metaphysical poems about God, written by George Herbert.

ANSWER: The **Temple**

5. The UCST of these substances is the maximum temperature where the coil-globule transition occurs for a constituent of them. A constituent of these substances behaves ideally when their other constituent is the theta type. The interaction parameter for a theory of these substances is defined as the product of lattice coordinate and change in interaction energy scaled down by the Boltzmann constant times temperature and is represented with χ . Static and dynamic light scattering are used on these substances to determine the second virial coefficient, the radius of gyration, and the weight-average molecular weight of one of their constituents. That theory that describes these substances was developed by Flory and Huggins. For 10 points, identify these substances that consist of a polymer dissolved in a solvent.

ANSWER: **polymer solutions** [or **polymer-solvent** mixtures until "polymer" is read; prompt on: **polymers, solutions**]

6. One member of this family had her marriage to a monarch orchestrated by Abbot Giulio Alberoni, and upon the death of Ferdinand VI, she served as intermediate ruler until her son Charles III could assume the throne. Another member of this family temporarily had his duchy of Castro confiscated by Urban VIII due to excessive gambling debts. In addition to Odoardo I, this family, which had been founded by Pierluigi, the son of Pope Paul III, included Ranuccio I, who founded the first Italian university which included Jesuits on the faculty. The domain held by this family passed to the Bourbon family after its last duke, Antonio, died childless. Another member of this family defeated the Union of Utrecht and captured Antwerp in 1585 after succeeding Don John of Austria as the governor of the Netherlands. Including Isabel, Queen of Spain, and Alessandro, for 10 points, identify this Italian family which ruled the duchy of Parma from 1545 to 1731.

ANSWER: **Farnese** family

7. This philosopher proposed a thought experiment in which a missionary and a cannibal both know how to use the word "good," but for the missionary it means "doing no murder," while for the cannibal it means "productive of maximum scalps." The term "supervenience" was introduced into philosophy by this thinker, who argued that ethical sentences are really imperatives of prohibition in his most famous work. This philosopher suggested that you first ask your interlocutor "what level of thinking he is talking about," because "on this will depend what moves in the game are permissible," in his essay, "How to Argue with an Anti-Utilitarian." and attempted to give a positive answer to the question "Could Kant Have Been a Utilitarian?" For 10 points, identify this utilitarian philosopher best known for his meta-ethical approach of prescriptivism, as outlined in his 1952 book, *The Language of Morals*.

ANSWER: Richard Mervyn **Hare**

8. The *crcB* motif is one of these things that binds to the fluoride ion. The labs of both Tina Henkin and Ron Breaker, who hypothesized and named these things, are particularly known for studying these things. Types I and II of these things are differentiated by the presence of a single or bipartite binding pocket, and type II includes ones that bind to SAM and TPP. A recently discovered class of these things binds two prime-deoxyguanosine and belongs to their purine family. They are most often found in the five prime-untranslated region and contain a switching sequence that flips between their aptamer domain and expression platform. These cis-acting elements most often act by forming a transcription

terminating stem-loop structure or sequestering the Shine-Dalgarno sequence. For 10 points, identify these bacterial regulatory elements in mRNA that bind to metabolites, causing a conformational change and controlling mRNA expression.

ANSWER: **riboswitches** [or **ribofuses**; prompt on m**RNA**]

9. Although the original study that led to the formulation of this concept predicted a growing expenditure gap, the work of Marianne Felton showed that this gap did not materialize in the 1990s. A 2006 macroeconomic analysis of this phenomenon by William Nordhaus demonstrated that it held across multiple industries. In an article explaining why he did not believe in this concept, Tyler Cowen argued that the sector analyzed by this concept's formulators was not "asymptotically stagnant," because both process and product innovations can increase consumption. This concept was originally characterized by its namesake and William Bowen in the work *Performing Arts: The Economic Dilemma*, which noted that the number of people and the amount of time to perform a Beethoven string quartet has stayed invariant for two hundred years. For 10 points, identify this phenomenon in which salaries for jobs that do not experience productivity gains due to technology or other factors rise anyway along with salaries for jobs that do.

ANSWER: **Baumol** effect or "cost disease"

10. In one work by this author, a man known as "the Baron," befriends a boy named Edgar in order to get closer to and seduce Edgar's mother. In another of this author's works, the title prophet urges the people of Jerusalem to make peace with the Chaldean army. In addition to *The Burning Secret* and the anti-war drama *Jeremiah*, this author wrote of Edith Kekesfalva, the paralyzed daughter of a rich Hungarian merchant who falls in love with Anton Hofmiller, an Austrian cavalry officer, in his only full novel, *Beware of Pity*. Pushkin Press has recently issued a new translation of this author's abandoned work titled "The Post-Office Girl," as well as his long-lost novella "Journey Into the Past." This author's most famous story, mailed to his publisher the day before his suicide in Brazil, concerns a voyage during which one of the passengers defeats a grandmaster in the title game owing to the fact that he used to play the game against himself when imprisoned by the Nazis. For 10 points, identify this Austrian-Jewish author of the memoir *The World of Yesterday*, and many novellas such as "Chess Game."

ANSWER: **Stefan Zweig**

11. This book's first chapter praises the innovations of J.H. Lambert and William Playfair, and in an analysis of "Puzzles and Hierarchy," this book quotes Paul Valery to say that "Seeing is forgetting the name of the thing one sees." This work cites Robert Venturi's *Complexity and Contradiction in Architecture* to argue for the use of multifunctional elements, and this book points out that Chernoff faces can be used to depict "strangers," or points inconsistent with others in the neighborhood. This work's second chapter, on integrity, defines a "lie factor" as the ratio of the size of effect shown to the size of the effect computed, and this book famously extolls Charles Joseph Minard's time-series depiction of the size of Napoleon's army during the Russian campaign as possibly "the best statistical graphic ever drawn." Famously disdainful of "chartjunk," for 10 points, identify this seminal work on how to create charts and graphs, the most famous book of Edward Tufte.

ANSWER: The **Visual Display of Quantitative Information**

12. The Japanese conceptual artist Ushio Shinohara uses this activity to create his most famous paintings. A policeman stands in the left corner and a man sits reading a newspaper at a wooden desk in the center foreground, while a man engaged in this activity sits on a stool in the center in a Thomas Eakins painting. A woman in the center foreground turns to look over her left shoulder while behind her, two men in top hats observe this activity in a 1916 lithograph by the artist most famous for depicting this activity. In

another Eakins painting, a practitioner of this activity is shown almost naked except for a pair of blue-belted shorts and is raising his hand to a cheering crowd; that painting is titled *Salutat*. In one painting, a blue-shirted man in a tie is pointing towards the ground as spectators attempt to catch one man engaged in this activity who falls away from another participant who is wearing purple shorts. The artist of that painting also depicted a black man and a white man in green shorts engaged in this activity in 1909 at Sharkey's Athletic Club. For 10 points, identify this activity depicted in paintings like Eakins' *Between Rounds*, as well as in *Both Members of This Club* and *Dempsey and Firpo* by George Bellows.
ANSWER: **boxing** [prompt on anything like "fighting" or "wrestling"]

13. Six years after its passage, this legislation was amended by the SARA legislation, which added among other things, provisions for emergency comprehensive response plans involving community emergency coordinators. Section 107(r) of this legislation limited liability under it in order to encourage mitigation of brownfields. This legislation was sponsored in the Senate by John Culver and Edmund Muskie, and one of the first locations to fall under the auspices of this legislation was Times Beach, Missouri. "Pursuant to this legislation, a National Priorities List was established by the EPA of sites subject to it, which includes locations such as New York's Love Canal and Hudson River, the latter being listed due to presence of PCBs. For 10 points, identify this 1980 piece of legislation which takes its informal name from the tax levied on chemical and petroleum industries for the cleanup of environmental pollution.
ANSWER: **Superfund** or **Comprehensive Environmental Response, Compensation, and Liability Act**

14. In Matthew 25:35, Jesus praises those who perform this action. A hadith says that nobody is a Muslim who goes to sleep without performing this action. Among the Sikhs, the beneficiaries of this action form a pangat, and this action is performed in a special section of the Gurdwara called the Langar. According to Jewish tradition, King Solomon was prohibited from using gold and silver collected by King David to build the Temple because that wealth should have been used for this purpose and the Jewish tradition of Maaser Ani exists explicitly for this purpose. The proceeds of Zakat are often used for this purpose, and this was the goal of one of Jesus's miracles involving multiplication. For 10 points, name this action that you might partake in by volunteering at a soup kitchen or having a canned food drive.
ANSWER: **feeding the poor** [accept equivalent such as feeding the hungry or feeding the needy; prompt on "alms-giving"; if somebody buzzes in with "eating", prompt them and say "can you be more specific about who is eating?"]

15. One character in this work manages to foil Clarence Poltwhistle's plot to steal his inheritance, and has Richard Cholmondeley offer a reward of a hundred crowns for helping him do so. In this work's second act, the sound of an arquebus fired from the wharf leads to an argument about whether a dead man sank like a stone or like a lump of lead, but that man's death is merely a "tale of cock and bull". The overture to this work is unusual for being in sonata form, and incorporates excerpts from a song about "when our gallant Norman foes made our merry land their own" as well as "Were I thy bride". That song is sung to Wilfred Shadbolt, who ends up winning the hand – but not the heart – of Phoebe Meryll. This work ends with Jack Point falling at the feet of Elsie Maynard, with whom he earlier performed "I have a song to sing, O". For 10 points, name this Gilbert and Sullivan operetta with a chorus of Tower Warders.
ANSWER: **The Yeomen of the Guard**, or *The Merryman and His Maid*

16. One work by this author consists of a series of interrogations conducted by the title character with men such as Leo, Irving, and Duffy. In another story, set in a bar run by Brother B., Railroad Shorty kills the bartender Fancy in a fight for making up dirty stories about Shorty and Venus. In addition to writing "The Face on the Barroom Floor," and "The Captain Has Bad Dreams," this author wrote of Luther's fatal attempt to rob the Jitney Jungle in the story "So Help Me." In another story by this author, the prayers of

the Orlov family appear to exorcise a ghost haunting their apartment, but with the perverse consequence of turning Roman Orlov into an alcoholic because he has no place to sleep. This author wrote about Captain Kozak's interrogation of "Lefty" Bicek concerning the robbery and murder of a drunk in a story which takes its title from the object Bicek claims he was out to get as his alibi. For 10 points, identify this author whose stories of Chicago, including "How the Devil Came Down Division Street," and "A Bottle of Milk for Mother," are contained in his collection *The Neon Wilderness*.

ANSWER: Nelson **Algren**

17. In one essay, this author argues that just as the first step towards treating disease was replacing demon theories with the germ theory, and thereby dashing "all hopes of a magical solution," so a certain branch of human activity should abandon all hope of a "silver bullet." This author concluded that the answer to the title question was that those undertaking the project were lacking both communication and organization in an essay asking "Why did the Tower of Babel fail?" According to this author, the "truly useful object" is the programming systems product even though it costs nine times as much, but he bemoaned the fact that programming systems "reflect conceptual disunity far worse than that of cathedrals." In his most famous essay, this author stated his eponymous law, which holds that "adding manpower to a late project makes it later." For 10 points, identify this writer on software design, the author of *The Mythical Man-Month*.

ANSWER: Fred **Brooks**

18. The father of the protagonist of this novel is respected for his ability to keep peace between his two wives Nyokabi and Njeri. That protagonist has a brother named Kori who works in the Green Hotel and a brother named Kamau who works as a carpenter's apprentice. It ends as another brother, Boro, flees into the night, never to return. The protagonist's family works for the white landowner Mr. Howlands. Written while its author studied at Leeds University, this novel features Mwihaki, whose finishing school is paid for by the protagonist. Set against the backdrop of the Jomo Kenyatta trial, this novel features a rivalry between the families of Jacobo and Ngotho, whose son Njoroge just wants to get educated while war breaks out around him. For 10 points, name this first English novel to be published by an East African, a Ngugi wa Thiong'o novel that depicts the outbreak of the Mau Mau Rebellion.

ANSWER: **Weep Not, Child**

19. Part of the motivation for this event was the opposition to government attempts to remove Emil Eichhorn from the post of police chief, which Eichhorn himself had simply taken over during a demonstration a few months before this event. This event was partially precipitated by the earlier clash between government troops and the People's Naval Division, and the fighting during this event primarily centered on the Vorwarts building. The government response to this event was organized by Gustav Noske, who would be forced to turn the army against the troops he mobilized in response to this event just one year later during the Kapp Putsch. This event was an attempt by the KPD to topple the SPD government of Friedrich Ebert, and was partially led by a thinker who had four years earlier authored the "Junius Pamphlet" from prison. For 10 points, identify this rebellion of January 1919 in Berlin, which was suppressed by the Freikorps and ended with the murders of its leaders, Rosa Luxembourg and Karl Liebknecht.

ANSWER: **Spartacist** revolt or uprising

20. Observations conducted by the TRACE mission have revealed that this area is home to large cool loops which change on timescales of about 1 minute. A consequence of the separation of atoms and ions across magnetic field lines in this area due to the first ionization potential effect is the fractionation, or relative abundance, of magnesium, silicon, and iron. This region is home to frequent, small bursts known

as “explosive events” which may be the result of conversion of magnetic to kinetic energy via magnetic reconnection. The temperature within this region rises rapidly from about 20,000 degrees Celcius to about 1 million degrees, and this region’s emissions are dominated by ultraviolet signals from triply ionized carbon, oxygen, and silicon, rather than hydrogen. For 10 points, identify this region lying between the corona and the chromosphere of the sun.

ANSWER: solar **transition** region

1. A celebrated tracking shot in a film by this director is filmed from inside a tram as it travels through the country, past a lake, and into the heart of a city. For 10 points each:

[10] Identify this German expressionist director of *Sunrise: A Song of Two Humans* and *Nosferatu*.

ANSWER: FW **Murnau**

[10] *Sunrise: A Song of Two Humans* stars Janet Gaynor, as does *Street Angel*, a work that adopts the visual style of *Sunrise* and which is by this American director.

ANSWER: Frank **Borzage**

[10] Borzage is better known for this film, also starring Janet Gaynor, which takes its name from the floor on which the sanitation worker Chico lives.

ANSWER: **Seventh Heaven**

2. This document established a state council of 21 members, 15 of whom were explicitly named in this document, and permanently disenfranchised all Roman Catholics. For 10 points each:

[10] Identify this document which also established the office of the Lord Protector and served as the de facto constitution of Cromwellian England.

ANSWER: **Instrument** of Government

[10] This British Parliamentarian and military commander wrote the Instrument. After the Restoration, he was imprisoned on Drake's Island, where he died.

ANSWER: John **Lambert**

[10] After Richard Cromwell was deposed, Lambert attempted to prevent the sitting of this Parliament, but his forces were defeated by George Monck, who did seat it, and see it restore Charles II.

ANSWER: **Rump** Parliament

3. When these objects belong to royalty, they are white, and represent the *mitama*, or the spirit of a deity. For 10 points each:

[10] Identify these objects which along with a sword and jewels are part of the Japanese imperial regalia. One of these was used to lure Amaterasu out of her cave.

ANSWER: **mirrors**

[10] This location is said to house the mirror of Amaterasu, thus making it the holiest site in Shinto. Its buildings are burned down and rebuilt every 20 years.

ANSWER: **Ise** Grand Shrine

[10] The outer shrine of the Ise Grand Shrine is dedicated to Toyouke, a *kami* responsible for providing this.

ANSWER: **food** [accept logical equivalents]

4. EJ Corey is an important figure in organic chemistry. For 10 points each:

[10] The Corey-Bakshi-Shibata reaction enantioselectively reduces these functional groups using borane and an oxazaborolidine catalyst. They don't oxidize readily, so they don't cause silver to precipitate in the Tollens test.

ANSWER: **ketones**

[10] In *The Logic of Chemical Synthesis*, Corey introduced this type of analysis which proceeds from a target molecule through progressively simpler precursors without any regard to starting materials.

ANSWER: **retrosynthesis** [or **retrosynthetic** analysis; or **antithetic** analysis; do not accept "synthetic analysis"]

[10] Corey's total synthesis of prostaglandins used asymmetric induction, in which he used

8-phenylmenthol as this type of compound. This type of compound is temporarily attached to a substrate and controls the stereochemical selectivity of reactions while attached, but is removed at the end, and their best-studied examples are Evans oxazolidinones.

ANSWER: **chiral auxiliary** [or word forms]

5. This play's title character consults his engineer, Martial Besse, for advice on how to build a people; after Besse tells him that people need energy and pride, the title character resolves to bring this about by forcing them to build a citadel. For 10 points each:

[10] Identify this drama about the title ruler, who makes various members of his court the Dukes of Lemonade, Candytown, and Marmalade.

ANSWER: The **Tragedy of King Christophe** or La **Tragedie du Roi Christophe**

[10] *The Tragedy of King Christophe* was written by this playwright from Martinique, whose most famous work is his poetry collection *Return to My Native Land*.

ANSWER: Aime Fernand **Cesaire**

[10] Henri Christophe is also the title character in the first play of this author's Haitian Trilogy, which comprises *Henri Christophe*, *Drums and Colours*, and *The Haytian Earth*.

ANSWER: Derek **Walcott**

6. This work's section on free time notes that holidays and vacations are two ways of distributing it, and its section on meritocracy distinguishes between desert and qualification. For 10 points each:

[10] Identify this philosophical work, subtitled "A defense of pluralism and equality," whose title refers to areas that encompass the different social meanings of different goods.

ANSWER: **Spheres of Justice**

[10] This American political philosopher who also wrote *Just and Unjust Wars* wrote *Spheres of Justice*.

ANSWER: Michael **Walzer**

[10] Walzer's *Spheres of Justice* was critiqued by this thinker for assuming that social meanings are shared, whereas this thinker argued that they are constantly contested. He was the author of *Law's Empire* and *Taking Rights Seriously*.

ANSWER: Ronald Myles **Dworkin**

7. This concept was originally formulated by Gregory Gause in his book, *The Struggle for Existence*. For 10 points each:

[10] Identify this rule, which argues that two species cannot occupy similar niches because the more "fit" of the two will consume the resources the other needs to live and thereby cause it to die or move to a different niche.

ANSWER: **competitive exclusion** principle

[10] A formal theoretical treatment of competitive exclusion was given in the riveting tome *Resource Competition and Community Structure* by this American ecologist.

ANSWER: David **Tilman**

[10] Tilman's models of resource competition are built around and generalize this system of differential equations originally developed to study predator-prey relationships.

ANSWER: **Lotka-Volterra** equations

8. The "divisible" doctrine of this action was established in the 1948 case *Estin v. Estin* and further refined in *Vanderbilt v. Vanderbilt*. For 10 points each:

[10] Identify this action, which today may be carried out without showing of wrongdoing by either party in all 50 states.

ANSWER: **divorce**

[10] This 1942 Supreme Court case established that the state being sued was obligated to recognize a divorce obtained in Nevada under the "Full Faith and Credit" clause.

ANSWER: **Williams** v. North Carolina

[10] North Carolina was also the defendant in the 1976 *Woodson* case, which held 5-4 that making this action mandatory was unconstitutional.

ANSWER: **death penalty**

9. In one work in which he appears, this character reminisces about his time in the Anglo-Sikh War while being questioned by Queen Victoria; in another novel, he participates in the Charge of the Light Brigade. For 10 points each:

[10] Identify this character whose story is told in 12 novels using the frame story of historical documents allegedly discovered and edited by the author, George MacDonald Fraser.

ANSWER: Harry Paget **Flashman**

[10] The first and middle name for Flashman were Fraser's invention, but the base character was a bully from this Thomas Hughes novel about the title student at Rugby and his friend Harry East.

ANSWER: **Tom Brown's School Days**

[10] One Flashman novel has him involved in this conflict, a struggle between Great Britain and Russia over control of central Asia, primarily centering on Afghanistan.

ANSWER: the **Great Game**

10. A person with this title may not have a church dedicated to them, but can be depicted on a prayer card. FTPE,

[10] Name this title, sometimes called "Heroic in Virtue", which in the Catholic Church is the step immediately before beatification on the way to sainthood.

ANSWER: **Venerable**

[10] Catholics believe that Saints can cause miracles because they enjoy this – the ability to communicate directly with God, due to being with God in heaven.

ANSWER: **Beatific Vision**

[10] Eastern Orthodox Christianity uses this term, rather than canonization, for declaring somebody to be a saint. Often, the church will examine evidence that the potential saint's body has not decayed, or produces myrrh.

ANSWER: **Glorification**

11. Answer some questions about plasma drifts, for 10 points each.

[10] The simplest of the plasma drifts is obtained by assuming the existence of a constant perpendicular drift in the Lorentz equation and averaging over time, yielding a mean velocity proportional to the cross product of these two quantities.

ANSWER: **electric** and **magnetic** fields

[10] Drifting particles execute a helical motion because they execute this circular motion around the magnetic field lines.

ANSWER: **Larmor** precession or **cyclotron** motion

[10] A drifting plasma may be contained using this arrangement of field lines which exploits the fact that the magnetic moment is an adiabatic invariant of the system; when the particle reaches a place of sufficiently dense field lines, it is forced to reverse its velocity.

ANSWER: magnetic **mirror**

12. This artist depicted a huge group of men-in-white with bayonets lined up to attack in *At the Fortress Walls. Let them Enter*. For 10 points each:

[10] This artist painted many ornate doors in works like "The Doors of Tamerlane" and "At the Door of a Mosque" and also showed a flock of crows near a pile of skulls in another work.

ANSWER: Vasily Vasilyevich **Vereshchagin**

[10] The Vereshchagin painting of a pyramid of skulls is titled for one of these scenes. Herodotus burns incense while a winged figure crowns Homer in one of these scenes by Ingres.

ANSWER: **apothoeosis** scenes [or *The **Apotheosis** of War*; or *The **Apotheosis** of Homer*]

[10] This other Russian painter made a snowy depiction the Bronze Horseman in one work and made a highly detailed painting of the *Morning of the Streltsy's Execution* with St. Basil's in the background.

ANSWER: Vasily Ivanovich **Surikov**

13. Originally devised by Kaufman et al., the goal of this task is to render a quick judgment about how many figures one sees on a screen. For 10 points each:

[10] Identify this common task performed in psychological experiments.

ANSWER: **subitizing** task

[10] In this eponymous task, participants were asked to reproduce stimuli that they had seen for a very short amount of time both with and without simultaneous auditory cues, corresponding to whole report and partial-report conditions. Performance was much higher on trials accompanied by the auditory cue, supporting the hypothesis of iconic memory.

ANSWER: **Sperling** task or experiment

[10] This psychologist generated his namesake "forgetting curve" by training people to remember lists of nonsense syllables and seeing how long it took them to forget it.

ANSWER: Hermann **Ebbinghaus**

14. The first 29 sections of this long poem were originally published under the title *Cikada*, and it was adapted into an opera by Karl-Birger Blomdahl. For 10 points each:

[10] Identify this epic poem about the title spaceship which, while carrying 8000 colonists to Mars, is accidentally ejected from the solar system, dooming its crew to drift through the universe forever.

ANSWER: **Aniara**

[10] *Aniara* is the wildly popular science fiction poem of this Swedish author, who invited a shitton of controversy when he and his friend Eyvind Johnson, both members of the Nobel committee, seemingly awarded the prize to themselves. Unable to stand the criticism, he killed himself with a pair of scissors.

ANSWER: Harry Edmund **Martinson**

[10] The gap for Swedish poets winning Nobels stretched all the way to 37 years until this awesome dude, the author of *Baltics*, *The Great Enigma*, and other children's classics, won in 2011.

ANSWER: Thomas **Transtromer**

15. These two polities signed the 1639 Treaty of Zuhab, which split the disputed territories by granting Yerevan to one party and Baghdad to the other. For 10 points each:

[10] Identify these two powers.

ANSWER: **Ottoman** Empire and **Saffavid** Empire

[10] This Saffavid ruler restored much of the glory of the empire after succeeding to the throne in 1588, and began the war against the Ottomans, though he died well before it concluded.

ANSWER: Shah **Abbas I** or the **Great**

[10] Wary of conspiracy, Abbas relied heavily for administration on these slaves, who were typically Georgians or Armenians forcibly converted to Islam.

ANSWER: **ghulams**

16. This novel's three parts, "Killing Mr. Watson," "Lost Man's River," and "Bone by Bone," were originally

three separate novels reworked into a whole by its author. For 10 points each:

[10] Identify this novel about the possibly-historically-real Edgar Watson, who became rich turning sugarcane into syrup and apparently pretty much indiscriminately murdering people.

ANSWER: **Shadow Country**

[10] *Shadow Country* won the 2008 National Book Award for this author, whose other works include a chronicle of the conflict between the FBI and the American Indian Movement, *In the Spirit of Crazy Horse*.

ANSWER: Peter **Matthiessen**

[10] The title of the third part of *Shadow Country*, "Bone by Bone," is taken from the last line of a poem by this American poet; that poem begins "There is a pain so utter/ It swallows substance up." Another poem begins, "My life had stood a loaded gun."

ANSWER: Emily **Dickinson**

17. Name the following things you might do while pronouncing a sound FTPE.

[10] This term refers to releasing a puff of air while pronouncing a consonant. Often, it's depicted by writing a super-script h after the consonant in question.

ANSWER: **aspiration**

[10] This is the phenomenon of touching the roof of your mouth with your tongue while making a consonant. This is common in Russian, and explains why many Russian consonants sound like they have a "y" after them.

ANSWER: **palatalization**

[10] In February 2012, an alarmist New York Times article reported that teenage girls on Long Island were doing this to their vowels – pronouncing them with their larynx vibrating irregularly, leading to a stiffer, lower-pitched sound sometimes called "vocal fry". In the International Phonetic Alphabet, this kind of vowel is written with a tilde under it.

ANSWER: **creaky** vowel or **creakiness**

18. This book argues that the title events occur as a consequence of the interaction between strategic objectives and economic abilities, and that the second title event takes place when the costs of maintaining a military presence outweigh the economic benefits. For 10 points each:

[10] Identify this 1987 book by the Yale historian Paul Kennedy.

ANSWER: The **Rise and Fall of the Great Powers**: Economic Change and Military Conflict from 1500 to 2000.

[10] In the book's epilogue, Kennedy cites this historian as saying "the great wars of history... are the outcome... of the unequal growth of nations." This historian is best known for his "Heartland" theory, as articulated in his article "The Geographical Pivot of History."

ANSWER: Halford John **Mackinder**

[10] In the section of the book concerned with pre-World War I imperialism, Kennedy cites this German chancellor as saying "We cannot allow... any foreign Jupiter to tell us 'What can be done? The world is already partitioned.'" in a famous speech which claims that Germany must be either the hammer or the anvil.

ANSWER: Bernhard Heinrich Karl Martin von **Bulow**

19. Answer the following about musical adaptations of *Don Quixote*, for 10 points each.

[10] This man's tone poem *Don Quixote* prominently features a solo cello, and uses flutter-tonguing in the winds to represent sheep in a field after Don Quixote's windmill encounter.

ANSWER: Richard **Strauss**

[10] In Ludwig Minkus's ballet version of *Don Quixote*, choreographed by Marius Petipa, this character's famous variation with a fan is part of her wedding to Basilio. Don Quixote dances a minuet with her,

thinking she is Dulcinea.

ANSWER: **Kitri**

[10] Another ballet version of *Don Quixote* was written by this composer, whose *Histoires* for solo piano include "The Little White Donkey".

ANSWER: Jacques **Ibert**

20. This antibiotic is normally administered intravenously since it is not absorbed from the intestine and a common adverse reaction to it is called red man syndrome. For 10 points each:

[10] Identify this glycopeptide antibiotic commonly used to treat *C. difficile*-induced colitis if metronidazole fails.

ANSWER: **vancomycin** [or **vancocin**; or **vancoled**; or **vancomicina**; or **vancomycine**; or **vancomycinum**; or **vancocin HCL**]

[10] Vancomycin binds to the D-alanyl-D-alanine residue that is part of the monomer of this major constituent of Gram-positive bacterial cell walls, preventing the monomers from cross-linking.

ANSWER: **peptidoglycan** [or **murein**]

[10] This monosaccharide that is part of the monomer for peptidoglycan is also found as a monomer in chitin.

ANSWER: **NAG** [or **N-acetylglucosamine**; or **GlcNAc**; do not accept "NAM" or "N-acetylmuramic acid"]